

July 30, 2012
File: 2012-8116.000

Rick Mitchell
Discovery Consultants
PO Box 933
Vernon, BC
V1T 6M8

Re: DRAFT TERRESTRIAL SURVEY RESULTS - RARE PLANTS AND PEREGRINE FALCONS

Dear Mr. Mitchell:

Summit Environmental Consultants Inc. (Summit) is pleased to provide you with this DRAFT letter report providing results of the rare plant and peregrine falcon survey conducted at the proposed quarry site near Lynch Creek. This report is provided to you for your review and comment. We can then provide you with a final report suitable for submission to regulatory agencies with your bulk sampling permit application.

1. Project Background

North America Stone Inc. (NASI) is pursuing rock quarry operations north of Grand Forks, BC. On behalf of NASI, Discovery Consultants is looking to complete a bulk sampling permit to test the viability of a potential rock quarry for their Lynch Creek site. Prior to permit authorization, Lisa Tedesco, Regional Biologist with the BC Ministry of Environment (BC MOE), requires additional information regarding environmental impacts on project lands. This includes a terrestrial assessment of project lands, specifically for rare plants and cliff-nesting birds (i.e. peregrine falcons). Summit was retained by Discovery Consultants in July, 2012 to complete a survey for peregrine falcon nesting and rare plants (particularly cup clover) at two sites: the Lynch Creek site and the Granby River Pit.

On July 6, 2012, Summit Biologist Brian Arquilla, MSc., and Environmental Scientist, Catherine Piedt, B.Sc., met Rick Mitchell of Discovery Consultants at the study area to discuss the proposed development and to identify the area to be surveyed. Field investigations (by foot) examined four areas associated with the study area:

- A proposed access road;
- Spur road to quarry site;
- Bulk sampling exploration area; and
- An existing mountain bike trail.

2. Project Location and Environmental Setting

The study area is located 1 km east of the Granby River, 10 km east of Christina Lake, and approximately 27 km north of the town of Grand Forks (Fig. 3-1). The study area is within the Kettle Dry Mild Interior Douglas-fir Biogeoclimatic Zone (IDFdm1), with closed canopy dominated by mature Douglas fir (*Pseudotsuga menzeisii*) in the south end of the study area giving way to open granite perched in the project area's north boundary (Fig. 3-2). A list of vegetation observed on site is appended to this letter. A small creek running west to east drains most of the study area toward the Granby River.

The site is accessed north of Lynch Creek, via a tertiary road off the North Fork Road. From the access point, a two-metre wide trail ascends northwest to a small granite plateau. The proposed bulk sampling site is found along the eastern extent of the granite bluff. The entire area of exposed granite plateau comprises approximately 2,500 m². West of the trail, a mountain bike trail runs in a north south direction within the lease property. The trail is approximately 2 m in width. Both the access trail and the mountain bike trail are crossed in several places by seepages and ephemeral creeks running east toward the Granby River floodplain (Fig. 3-2).

3. Vegetation Survey Results

Searches of the Conservation Data Center historical sightings database resulted in a report of cup clover (*Trifolium cyathiferum*), BC Red List (S1), within the proposed area.¹ In addition, Lisa Tedesco (pers. comm.) identified three other plant species as having potential to occur within project lands:

- rareflower heterocodon (*Heterocodon rariflorum*), BC Blue List (S3);
- scalepod (*Idahoia scapigera*), BC Red List (S2); and
- Colorado rush (*Juncus confusus*), BC Red List (S1).

Field investigations focused on sites where habitat conditions are suitable for these species (wet meadows and seep areas in the Lynch Creek site), and a vegetation survey was conducted for the presence of cup clover and the other species of interest. While suitable habitat for these species was found within the Lynch Creek study area, no observations of any of these four species were observed during project area surveys conducted by Summit staff.

4. Falcon Survey Results

Discussions with the Ministry of Environment indicated the area exhibited habitat potential for the peregrine falcon. Peregrine falcon (*Falco peregrinus anatum*) is a red-listed species in B.C. and is on Schedule 1 of the federal *Species at Risk Act*. Peregrines are habitat specialists, normally nesting in rock cliffs above lakes or river valleys where abundant prey (mainly shorebirds, waterfowl, and songbirds) is nearby.²

¹ <http://www.env.gov.bc.ca/atrisk/ims.htm>

² <http://a100.gov.bc.ca/pub/eswp/speciesSummary.do?id=18798>



July 26, 2012
Rick Mitchell
Discovery Consultants
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Visual and audio surveys were conducted in areas suitable for nesting, including cliffs within the Granby River Pit study area, and cliffs were surveyed by foot where cliffs were safely accessible. Two turkey vultures were observed flying above the cliffs. No visual or auditory observations of peregrine falcons were made and no other signs such as whitewash on cliff faces were observed during the survey.

5. Survey Limitations and Recommendations

Summit recognizes that there are limitations to the single-day surveys conducted, and that these surveys cannot necessarily confirm absence of any species from an area.

In order to maintain potential habitat for rare plant species, we recommend minimizing the disturbance footprint associated with sampling activities, and maintaining the hydrology at and around the site. Summit discussed with Mr. Rick Mitchell of Discovery Consultants installing culverts along trail crossings of seeps and ephemeral creeks.

Please do not hesitate to contact me if you have any questions or concerns, or if you require additional information.

Catherine Piedt
Environmental Scientist

CP

Attachments:

Figure 3-1: Proposed Lynch Creek Quarry Project Area.

Figure 3-2: Proposed Lynch Creek Quarry Project Site.

Appendix A – Site Photos

Appendix B – Vegetation



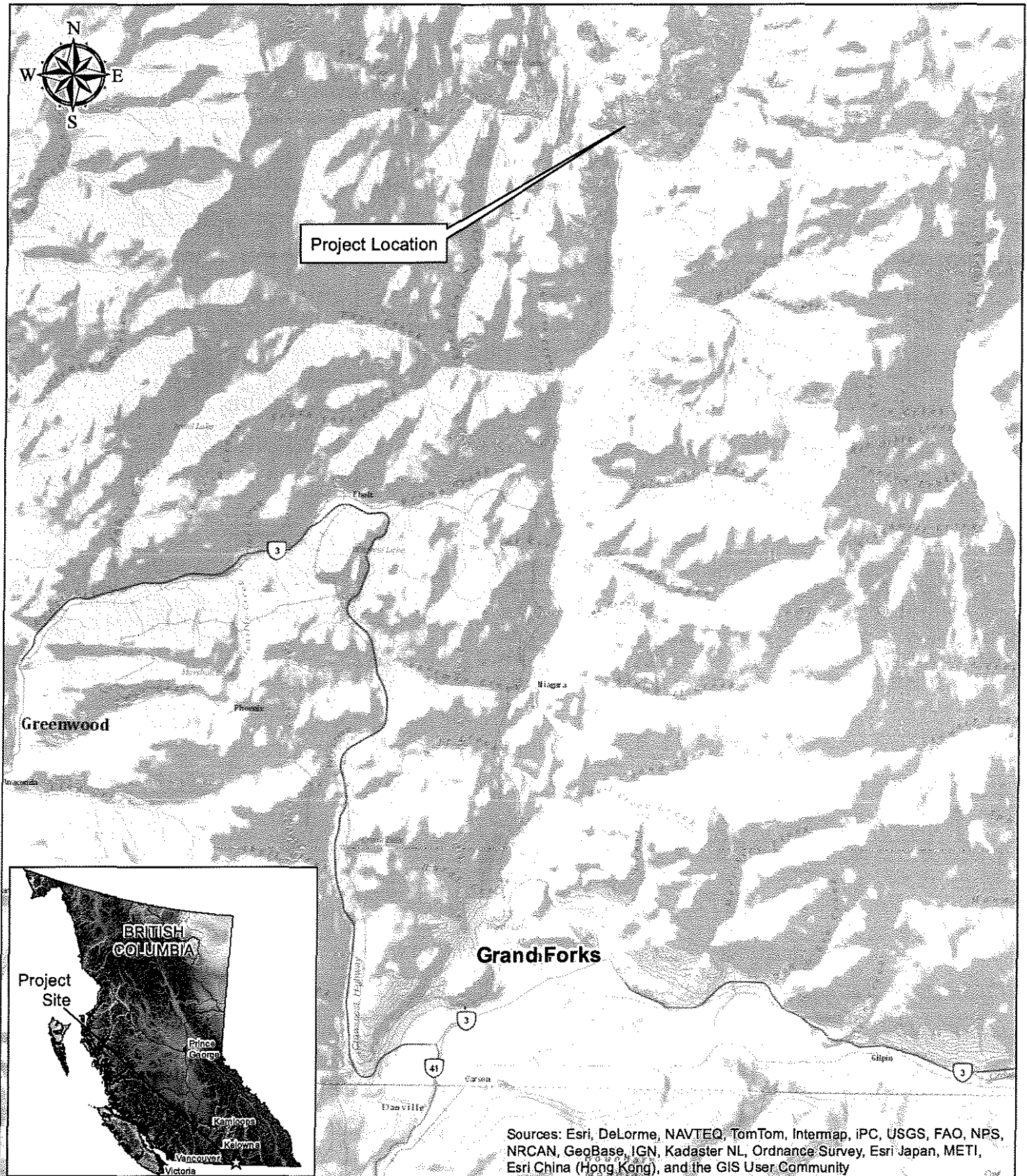


Figure 3-1: Proposed Lynch Creek Quarry Project Area

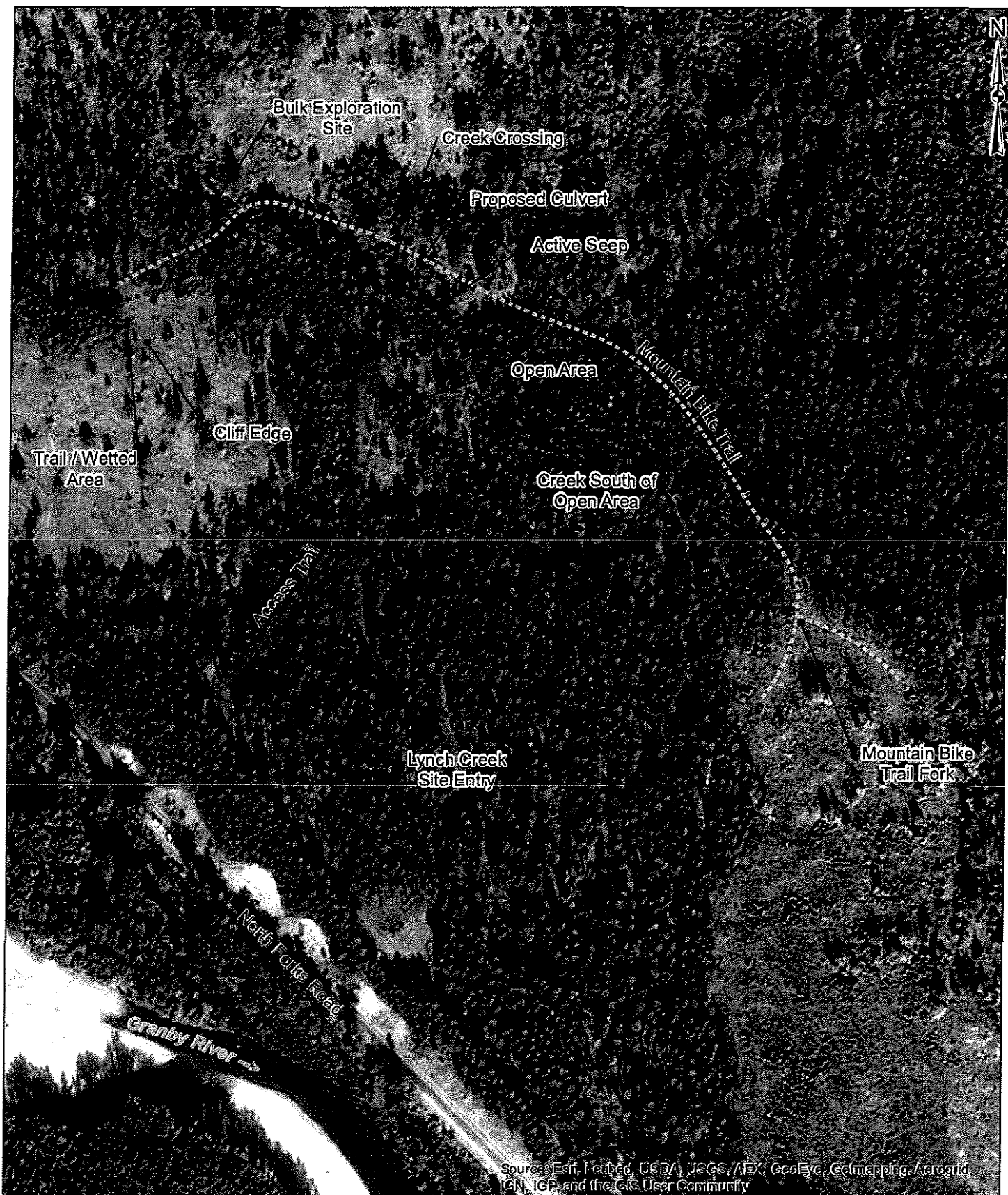


Figure 3-2: Proposed Lynch Creek Quarry Project Site

SUMMIT
 ENVIRONMENTAL CONSULTANTS INC.
 A Member of the Associated Engineers and Geoscientists of British Columbia

EGM-2013-00107

Page 5

--- Access Trail

--- Mountain Bike Trail

0 100
 Meters

DATE:
 July, 2012
 DRAWN BY:
 DA

PROJECT:
 2012-3116.003

PREPARED FOR:
Discovery Consultants

Appendix A – Site Photos



Photo 1: View of area surveyed around Lynch Creek.

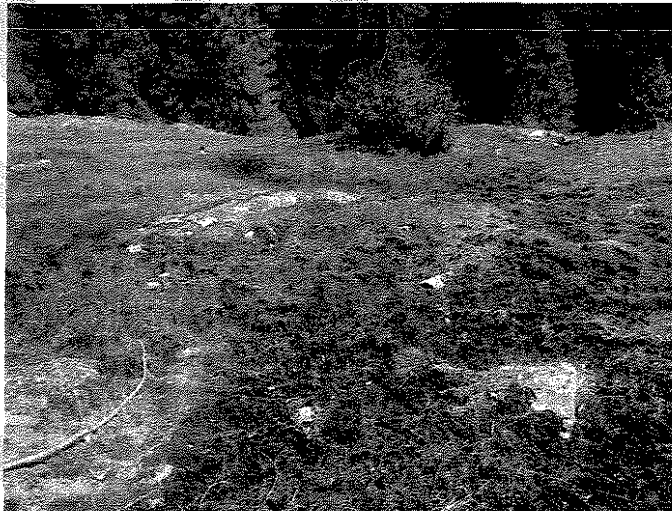


Photo 2: View of typical cup clover habitat (seep and wet areas) where survey efforts focused. No cup clover was found during this survey.

July 26, 2012
Rick Mitchell
Discovery Consultants
- 5 -

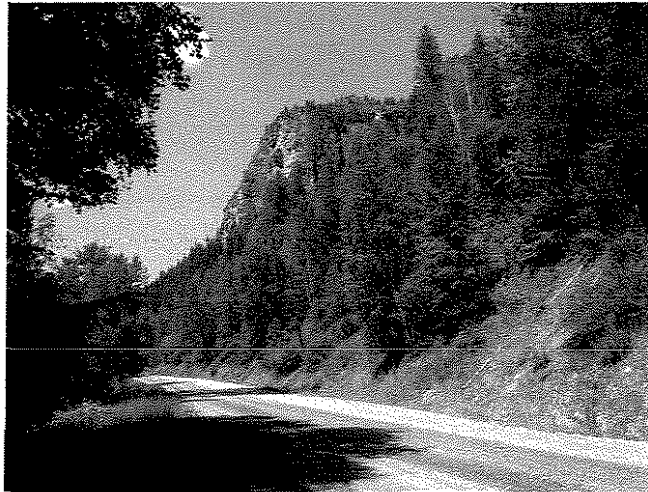


Photo 3: View of cliffs from road, Granby River Pit site.



Photo 4: Close up of cliffs. Survey efforts for the Peregrine Falcon were focussed at this site. No Peregrine Falcons were observed.

\\S-VER-FS-01\Old_Projects\PROJECTS\2012 Projects\2012-8116.000 Granby R Pit_Terrestrial Assessment\Deliverables\DRAFT_Granby Baseline Env Survey.Doc



ISO 9001 & 14001 Certified

EGM-2013-00107
Page 7



Photo 5: Close up view of cliffs searching for signs of Peregrine Falcons.



Photo 6: One of a pair of observed of turkey vultures above the cliffs.

Appendix B - Vegetation List

Canopy

- mature Douglas fir (*Acer glabrum* var *douglasii*) (dominant)
- Ponderosa pine (*Pinus ponderosa*)
- white pine (*Pinus monticola*)
- trembling aspen (*Populus tremoides*)
- paper birch (*Betula papyrifera*)
- tamarack (*Larix laricina*)

Shrubs

- birch-leaved spirea (*Spiraea betulifolia*)
- common snowberry (*Symphoricarpos albus*)
- prickly wild rose (*Rosa acicularis*)
- Saskatoon berry (*Amelanchier alnifolia*)
- gooseberry (*Ribes grossularia*)
- blueberry (*Vaccinium simulatum*)
- wild strawberry (*Fragaria virginiana*)
- thimbleberry (*Rubus parviflorus*)
- red huckleberry (*Vaccinium paivifolium*)
- common juniper (*Juniperus communis*)
- willow (*Salix* spp.)

Grasses

- pinegrass (*Calamagrostis rubescens*)
- bluebunch wheatgrass (*Pseudoroegneria spicata*)

Herbs

- Oregon grape (*Mahonia aquifolium*)
- kinnickinnick (*Arctostaphylos uva-ursi*)
- leathermoss (*Pleurozium schreberi*)
- white sweet clover (*Melilotus alba*)
- red clover (*Trifolium pretense*)
- yarrow (*Achillea millefolium*)
- common harebell (*Campanula rotundifolia*)
- upland larkspur (*Delphinium nutallianum*)
- fairyslipper (*Calypso bulbosa*)


Moss and lichen

- red-stemmed feathermoss (*Pleurozium schreberi*)
- arboreal lichen (*Bryoria* spp.)
- reindeer lichen (*Cladina* spp.)



1630593_Conflict_Map_Cup_Clover_Lynch

Wednesday, May 8, 2013
2:36 PM

| | |
|-------------|--|
| Subject | 1630593_Conflict_Map_Cup_Clover_Lynch |
| From | Hendrickson, Glen MEM:EX |
| To | XT:Mitchell, Rick TRAN:IN |
| Sent | Friday, June 29, 2012 10:32 AM |
| Attachments |  Lynch_Prop erty_Confl... |

Rick,
Attached is the map showing the Cup Clover Occurrence and your proposed works as provided in the KMZ. The "non-sensitive" classification just means that the data or site information is not sensitive and can be released to the public.
Cheers,
Glen

From: Franck, Kevin G FLNR:EX
Sent: Friday, June 29, 2012 11:24 AM
To: Hendrickson, Glen MEM:EX
Subject: RE: seepage sites

Hi Glen,

The map I just gave you shows "Trifolium Cyanthiferum" better known as "Cup Clover" as indicated as the large circle on map. Cup Clover is considered Non-Sensitive based on the attribute table. Map is attached.

Regards

Kevin

Kevin Franck
GIS Analyst
Ministry of Forests, Lands & Natural Resource Operations
Cranbrook, B.C. V1C 7G1
Email: kevin.franck@gov.bc.ca
Phone: 250-426-1740

From: Hendrickson, Glen MEM:EX
Sent: Thursday, June 28, 2012 4:30 PM
To: Franck, Kevin G FLNR:EX
Subject: FW: seepage sites

Kevin,
Can you use KMZ files to produce a map? I will give more details tomorrow, but I'd like to see the overlap of this site with an occurrence with Cup Clover (endangered species occurrence). Is this possible?
Talk to you tomorrow.
Glen

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: Wednesday, June 27, 2012 6:00 PM
To: Hendrickson, Glen MEM:EX
Cc: XT:Mitchell, Rick TRAN:IN
Subject: FW: seepage sites

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: June-27-12 4:28 PM
To: 'Discovery Consultants'
Subject: seepage sites

Glen,

Further to the cup clover and its requirement of moisture I again would like to point out that

there are not any seepage sites within either of the two permit areas. South of the Granby permit area there is a seepage area that is caused by the Granby River, not from moisture coming out of the hillside or from creeks.

Attached are two kmz files - we would appreciate having someone plot the reported cup clover and seepage locations that are the focus of concern.

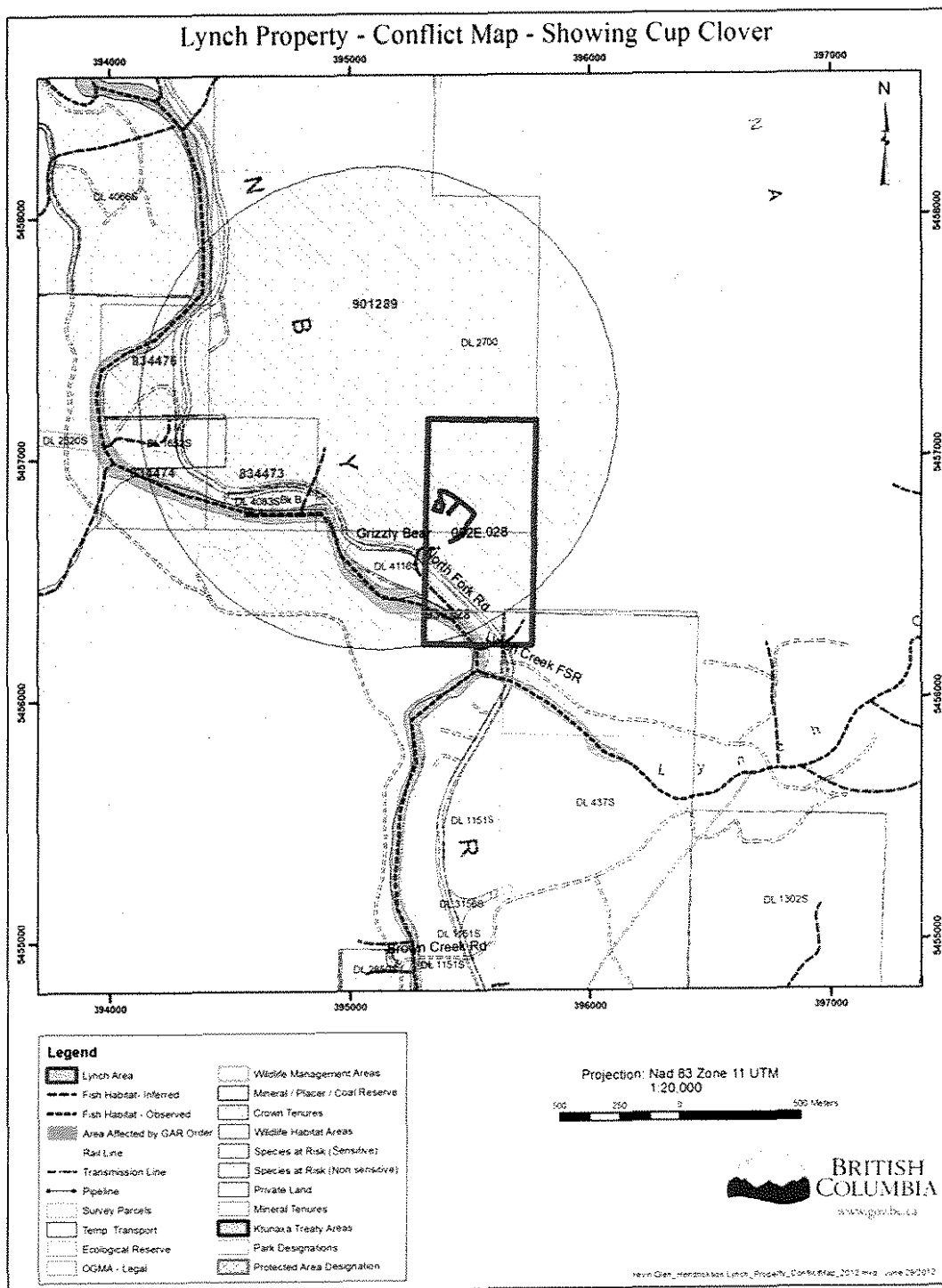
Thank you for your time.

Rick Mitchell



PO Box 933
Vernon, BC
V1T 6M8

tel (250) 542-8960
fax (250) 542-4867



RE: seepage sites

Wednesday, May 8, 2013
2:16 PM

| | |
|---------|--|
| Subject | RE: seepage sites |
| From | <u>Discovery Consultants</u> |
| To | Hendrickson, Glen MEM:EX |
| Cc | Franck, Kevin G FLNR:EX; XT:Mitchell, Rick TRAN:IN |
| Sent | Friday, June 29, 2012 11:19 AM |

Glen,

Thanks for the map. I see we have a broad area where they infer cup clover may exist, 90% of which is rock outcrop. This map still does not show the area where the cup clover was reported to have been observed. If it was reported truthfully should we not be given an actual coordinate for the location. We would prefer this as an actual comparison point. Pictures from this location would also give us something to compare habitats with, which is essentially the big picture here.

Thanks.

Rick Mitchell



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Vernon, BC
V1T 6M8

tel (250) 542-8960
fax (250) 542-4867

From: Hendrickson, Glen MEM:EX [<mailto:Glen.Hendrickson@gov.bc.ca>]
Sent: June-29-12 10:32 AM
To: XT:Mitchell, Rick TRAN:IN
Subject: FW: seepage sites

Rick,

Attached is the map showing the Cup Clover Occurrence and your proposed works as provided in the KMZ. The "non-sensitive" classification just means that the data or site information is not sensitive and can be released to the public.

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Regards

Kevin

Kevin Franck
GIS Analyst
Ministry of Forests, Lands & Natural Resource Operations
Cranbrook, B.C. V1C 7G1
Email: kevin.franck@gov.bc.ca
Phone: 250-426-1740

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Subject: FW: seepage sites

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Sent: June-27-12 4:28 PM
To: 'Discovery Consultants'
Subject: seepage sites

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Further to the cup clover and its requirement of moisture I again would like to point out that there are not any seepage sites within either of the two permit areas. South of the Granby permit area there is a seepage area that is caused by the Granby River, not from moisture coming out of the hillside or from creeks.

Attached are two kmz files - we would appreciate having someone plot the reported cup clover and seepage locations that are the focus of concern.

Thank you for your time.

Rick Mitchell



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Vernon, BC
V1T 6M8

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fax (250) 542-4867

Paradis, Angela EMNG:EX

From: Hendrickson, Glen MEM:EX
Sent: Wednesday, June 27, 2012 2:59 PM
To: XT:Mitchell, Rick TRAN:IN
Subject: 1630593_Email_Comments_on_Occurence_of_Species

Bill,

Please see the attached email below from FLNRO Habitat Biologist Lisa Tedesco. I have consulted with Lisa and found that there have been observed occurrences of this species near your proposed site. As you can see from her email below, a survey by a qualified biologist will be necessary. Lisa did say that this should be easily done in one day in conjunction with your peregrine survey so long as the contractor is confident in plant identification.

Let me know if you have further questions.

Glen

Glen Hendrickson
Senior Inspector of Mines, Permitting
Southeast Region
Ministry of Energy and Mines
Phone: 250.426.1705
Cell: S17

Mike, thanks for addressing this in my absence.

Glen, apologies for missing this in my review. I was certain I had checked the CDC records but must have missed this. Good catch. S22

S22 so figured I would do an initial follow-up to provide what information I am aware of but hopefully Jenifer will provide additional expertise S22

The species grows in wet seepage sites so in addition to not disturbing an occurrence site it is also critical to maintain the hydrology at and around the site. If work is completed that interrupts the flow of moisture at or to the occurrence site it may result in the loss of the species. Other red listed species that may grow in the same habitat include hairbell (*Heterocodon rariflorum*), scalepod (*Idahoia scapigera*) and Colorado rush (*Juncus confusus*). Jenifer recently delivered rare plant identification training to a group in the Boundary and we visited a site not too far from Lynch where we observed the cup clover, hairbell and rush in close proximity. I think that surveys would need to be completed in the next couple weeks to have the plants in an identifiable state (i.e. flowering).

As many locals have spoken of seepage sites within the application areas a survey for these species should be required. Jenifer can advise on qualified individuals for completing such a survey as rare plant botany is a special area of qualification.

I hope this helps. I will actually be in the office for the remainder of the week now if you have any questions. Regards, Lisa

Lisa Tedesco, Habitat Biologist
Phone: 250-354-6352 Fax: 250-354-6332

-----Original Message-----

From: Discovery Consultants [mailto:info@discoveryconsultants.com]
Sent: Wednesday, June 27, 2012 10:52 AM
To: Hendrickson, Glen MEM:EX

Cc: cathyhe@nastone.ca; XT:Mitchell, Rick TRAN:IN
Subject: RE: 1630593 North American Stone - Lynch Creek

Glen,

Please find attached some information on the cup clover (13a). Note that its habitat is wet meadows to dryish sandy soil. These conditions are not present in the area of the proposed exploration.

Therefore a vegetation survey should not be required.

Bill Gilmour

W.R. Gilmour, P.Geo.

P.O. Box 933
Vernon, BC
V1T 6M8

Tel (250) 542-8960
Fax (250) 542-4867

-----Original Message-----

From: Hendrickson, Glen MEM:EX [mailto:Glen.Hendrickson@gov.bc.ca]
Sent: June-25-12 4:02 PM
To: XT:Mitchell, Rick TRAN:IN
Subject: FW: 1630593 North American Stone - Lynch Creek

Rick,
I have left messages for both Mike and Jenifer requesting more information and will keep you informed.
Cheers,
Glen

From: Knapik, Mike B FLNR:EX
Sent: Friday, June 22, 2012 6:03 PM
To: Hendrickson, Glen MEM:EX
Cc: Penny, Jenifer L ENV:EX; Tedesco, Lisa M FLNR:EX
Subject: RE: 1630593 North American Stone - Lynch Creek

Hi Glenn. Attached is the summary sheet for cup clover. I can tell you it's currently red listed (endangered) in BC. I am including a provincial botanist from Victoria who would have more knowledge of what mitigation may be needed. Although it stands to reason that avoidance of the occurrence sites will be necessary. To that end, a vegetation survey would be required by the proponent before establishing exploration sites. Jenifer, could you provide clarity of what is prudent to manage around this plant species?

Mike Knapik, R.P.Bio
Acting Section Head
Kootenay-Boundary Region
Ministry of Forest, Lands and Natural Resource Operations
#401 - 333 Victoria Street, Nelson, B.C. V1L 4K3
phone: (250) 354-6929 fax: (250) 354-6332 [cid:image003.png@01CD5098.D7085130]

From: Hendrickson, Glen MEM:EX

Sent: Friday, June 22, 2012 10:48 AM
To: Knapik, Mike B FLNR:EX
Subject: 1630593 North American Stone - Lynch Creek

Hello Mike,

In reference to the Lynch Creek mineral exploration project, I had been dealing with Lisa Tedesco S22 . I was wondering if you would be able to connect me with someone who could help me with another issue in regards to this project that has come to my attention?

The project area for Lynch Creek has an ILRR overlap with the Endangered Species - Non-Sensitive Vascular Plant Cup Clover. I would like to know what sort of mitigation measures may be required, and if possible I would like to confirm/deny whether this is an endangered species due to the species being at its northern habitat limit.

If you would be able to help, it would be greatly appreciated, the client has a public information session on July 5th and it would be great if we could have some information for that session.

Cheers,

Glen

Glen Hendrickson
Senior Inspector of Mines, Permitting
Southeast Region
Ministry of Energy and Mines
Phone: 250.426.1705
Cell: S17

Paradis, Angela EMNG:EX

From: Tedesco, Lisa M FLNR:EX
Sent: Thursday, June 28, 2012 2:22 PM
To: Hendrickson, Glen MEM:EX
Subject: RE: seepage sites

Hi Glen,

I guess the one thing I would add is that the sites where I have observed this species have not been visible seepages in the sense that there is water percolating up from the ground or out from a cut but simply microsites where there is more moisture than surrounding habitats so for example you get a patch of moss as opposed to the thin rocky soils of a surrounding grassland.

It should be noted that in addition to the seepages which we have been focusing on the Conservation Data Centre list the following habitats as potentials as well: Grassland/Shrub Steppe; Wetland; Stream/River; Rock/Sparsely Vegetated Rock; and Sand/Dune.

E-Flora BC includes mesic to moist open, often sandy sites in the lowland, steppe and lower montane zones in addition to vernal wet seepage areas.

Given that there is a historic sighting in this area, other known occurrences within the Granby River valley and a range of habitats that this species can occur on my recommendation is that a qualified professional complete a survey within the south east application site.

I have not heard anything back yet from the CDC but will let you know as soon as I do. Regards, Lisa

Lisa Tedesco, Habitat Biologist
Phone: 250-354-6352 Fax: 250-354-6332

From: Hendrickson, Glen MEM:EX
Sent: Thursday, June 28, 2012 8:26 AM
To: Tedesco, Lisa M FLNR:EX
Subject: FW: seepage sites

Lisa,

Below is an email from the proponent at the Lynch Creek site where the Cup Clover occurrence has been noted. I will reply to them explaining that the occurrence of the species in their area means that there is high potential for the species to exist elsewhere in that area, however, I wondered if you had any additional information to add that could be of help?

Cheers,
Glen

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: Wednesday, June 27, 2012 6:00 PM
To: Hendrickson, Glen MEM:EX
Cc: XT:Mitchell, Rick TRAN:IN
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Thank you for your time.

Rick Mitchell




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1630593_Cup_Clover_Species_Summary_FLNRO

Wednesday, May 8, 2013

2:18 PM

| | |
|-------------|---|
| Subject | 1630593_Cup_Clover_Species_Summary_FLNRO |
| From | Hendrickson, Glen MEM:EX |
| To | XT:Mitchell, Rick TRAN:IN |
| Sent | Monday, June 25, 2012 4:02 PM |
| Attachments |  Species Summary |

Rick,
I have left messages for both Mike and Jenifer requesting more information and will keep you informed.
Cheers,
Glen

From: Knapik, Mike B FLNR:EX
Sent: Friday, June 22, 2012 6:03 PM
To: Hendrickson, Glen MEM:EX
Cc: Penny, Jenifer L ENV:EX; Tedesco, Lisa M FLNR:EX
Subject: RE: 1630593 North American Stone - Lynch Creek

Hi Glenn. Attached is the summary sheet for cup clover. I can tell you it's currently red listed (endangered) in BC. I am including a provincial botanist from Victoria who would have more knowledge of what mitigation may be needed. Although it stands to reason that avoidance of the occurrence sites will be necessary. To that end, a vegetation survey would be required by the proponent before establishing exploration sites. Jenifer, could you provide clarity of what is prudent to manage around this plant species?

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Hello Mike,
In reference to the Lynch Creek mineral exploration project, I had been dealing with Lisa Tedesco S22
S22 I was wondering if you would be able to connect me with someone who could
help me with another issue in regards to this project that has come to my attention?
The project area for Lynch Creek has an ILRR overlap with the Endangered Species – Non-Sensitive

Vascular Plant Cup Clover. I would like to know what sort of mitigation measures may be required, and if possible I would like to confirm/deny whether this is an endangered species due to the species being at its northern habitat limit.

If you would be able to help, it would be greatly appreciated, the client has a public information session on July 5th and it would be great if we could have some information for that session.

Cheers,

Glen

Glen Hendrickson

Senior Inspector of Mines, Permitting

Southeast Region

Ministry of Energy and Mines

Phone: 250.426.1705

Cell: s.17



BC Conservation Data Centre: Species Summary

Trifolium cyathiferum Cup Clover

Scientific Name *Trifolium cyathiferum* [Lindl.]
[Author]:
English Name: cup clover

Classification / Taxonomy

Scientific Name - Kartesz, J.T. 1994. A synonymized checklist of the
Concept Reference: vascular flora of the United States, Canada, and
 Greenland. 2nd edition. 2 vols. Timber Press, Portland,
 OR.
Classification Level: Species
Species Group: Vascular Plant
Species Code: TRIFCYA
Kingdom Phylum Class Order Family
Plantae Anthophyta Dicotyledoneae Fabales Fabaceae

Conservation Status / Legal Designation

Global Status: G4 (Jan 1990)
Provincial Status: S1 (Dec 2000)
BC List: Red
Identified Wildlife:
Provincial Wildlife
Act:
COSEWIC Status:

SARA Schedule:**General Status**

2 - May be at risk (2010)

Canada:**Ecology & Life History**

General Description: Cup Clover is a hairless annual herb with ascending or erect stems which stand 1-5 dm tall. Small "3-leaf clover" leaves are borne alternately on the stems, each leaf having 2 stipules (appendages) at the base of a long petiole (stalk) which bears 3 leaflets with toothed margins. Clover heads are borne on leafless peduncles (stalks which support an inflorescence) from leaf axils. Each head consists of 5-30 flowers cupped within a shallowly lobed, prominently veined, finely toothed involucre (whorl of bracts, in this case fused together, which subtend an inflorescence); the heads are 5-15 mm long and about the same width. The small flowers are about 2-5 mm long and have bilateral symmetry. The calyx has a 13-20 nerved tube and 5 teeth; the lower 3 teeth each have 2 or 3 bristle-like tips. The white, cream, or pink corolla is about as long as the tips of the calyx teeth, and consists of a banner (the large, hooding, upper segment), the wings (the side segments) and a keel (the prow shaped bottom segment). The fruit is a pod with usually 2 seeds.

Technical Description:**Diagnostic****Characteristics:**

Distinguished from other Montana TRIFOLIUM by combining annual habit, flower heads subtended by a shallowly lobed involucre, and lower calyx teeth with 2-3 bristle-tips.

Similar Species:**Habitats:**

Grassland/Shrub Steppe
Wetland
Stream/River
Rock/Sparsely Vegetated Rock
Sand/Dune

Provincial Phenology:

(1st half of month/
2nd half of month)

Elevation (m) (min / Provincial:

max):

Known Pests:

Pollen Vector:

Pollinator:

Dispersal:

Provincial Inventory

Inventory Priority:

**Ownership of
occurrences (Known
locations):**

Inventory Need:

Economic Attributes

Distribution

Endemic: N

Global Range B.C. to CA, east to ID and w. MT. Peripheral.
Comment:

**Disjunct, more
common elsewhere:**

**Peripheral, major
distribution
elsewhere:**

Distribution Unit

**Occurrence
Status** **Origin
Status**

Biogeoclimatic Unit

BGxh - Bunchgrass - Very Dry Hot

Confident or
certain Native
or
natural

CDFmm - Coastal Douglas-fir - Moist Maritime

Confident or
certain Native
or

| | | |
|---|----------------------|------------------------------|
| CWHmm - Coastal Western Hemlock - Moist Maritime | Confident or certain | natural Native or natural |
| CWHxm - Coastal Western Hemlock - Very Dry Maritime | Confident or certain | Native or natural |
| ICHdw - Interior Cedar - Hemlock - Dry Warm | Confident or certain | Native or natural |
| ICHmw - Interior Cedar - Hemlock - Moist Warm | Confident or certain | Native or natural |
| IDFdm - Interior Douglas-fir - Dry Mild | Confident or certain | Native or natural |
| IDFxm - Interior Douglas-fir - Very Dry Hot | Confident or certain | Native or natural |
| PPdh - Ponderosa Pine - Dry Hot | Confident or certain | Native or natural |

Ministry of Environment Region

| | | |
|---------------------|----------------------|-------------------|
| 1- Vancouver Island | Confident or certain | Native or natural |
| 3- Thompson | Possible | Native or natural |
| 4- Kootenay | Confident or certain | Native or natural |
| 8- Okanagan | Confident or certain | Native or natural |

Forest District

| | | |
|--|----------------------|-------------------|
| Arrow Boundary Forest District (DAB) | Confident or certain | Native or natural |
| Columbia Forest District (DCO) | Possible | Native or natural |
| Okanagan Shuswap Forest District (DOS) | Confident or certain | Native or natural |
| South Island Forest District (DSI) | Confident or certain | Native or natural |

Regional District

| | | |
|-----------------------------|----------------------|-------------------|
| Capital (CRD) | Confident or certain | Native or natural |
| Cowichan Valley (CVRD) | Confident or certain | Native or natural |
| Kootenay Boundary (KBRD) | Confident or certain | Native or natural |
| Okanagan-Similkameen (OSRD) | Confident or certain | Native or natural |

Regional District Map

This is not a range map.

This species is known to occur somewhere in the shaded regional district(s). The actual range of the species within each regional district may be much smaller.



Authors / Contributors

Global Information JM

Author:

Last Updated: Dec 12, 1994

**Provincial
Information Author:**

Last Updated:

**Last Literature
Search:**

References and Related Literature

- Douglas, G.W., D. Meidinger, and J. Penny. 2002. Rare Native Vascular Plants of British Columbia, 2nd ed. B.C. Conserv. Data Centre, Terrestrial Inf. Branch, Victoria. 358pp.
- Douglas, G.W., D. Meidinger, and J. Pojar. eds. 1999. Illustrated Flora of British Columbia, Vol. 3, Dicotyledons (Diapensiaceae through Onagraceae). B.C. Minist. Environ., Lands and Parks, and B.C. Minist. For., Victoria. 423pp.
-


Please visit the website http://www.env.gov.bc.ca/cdc/Reports/summary_data_fields_08.htm for definitions of the data fields used in this summary report.

Suggested Citation:

B.C. Conservation Data Centre. 2012. Species Summary: *Trifolium cyathiferum*. B.C. Minist. of Environment. Available: <http://a100.gov.bc.ca/pub/eswp/> (accessed Jun 22, 2012).

RE: seepage sites

Wednesday, May 8, 2013
2:17 PM

| | |
|-------------|--|
| Subject | RE: seepage sites |
| From | Franck, Kevin G FLNR:EX |
| To | Hendrickson, Glen MEM:EX |
| Sent | Friday, June 29, 2012 10:24 AM |
| Attachments |  Lynch_Prop erty_Confl... |

Hi Glen,

The map I just gave you shows "Trifolium Cyanthiferum" better known as "Cup Clover" as indicated as the large circle on map. Cup Clover is considered Non-Sensitive based on the attribute table. Map is attached.

Regards

Kevin

Kevin Franck
GIS Analyst
Ministry of Forests, Lands & Natural Resource Operations
Cranbrook, B.C. V1C 7G1
Email: kevin.franck@gov.bc.ca
Phone: 250-426-1740

From: Hendrickson, Glen MEM:EX
Sent: Thursday, June 28, 2012 4:30 PM
To: Franck, Kevin G FLNR:EX
Subject: FW: seepage sites

Kevin,
Can you use KMZ files to produce a map? I will give more details tomorrow, but I'd like to see the overlap of this site with an occurrence with Cup Clover (endangered species occurrence). Is this possible?
Talk to you tomorrow.
Glen

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: Wednesday, June 27, 2012 6:00 PM
To: Hendrickson, Glen MEM:EX
Cc: XT: Mitchell, Rick TRAN:IN
Subject: FW: seepage sites

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: June-27-12 4:28 PM
To: 'Discovery Consultants'
Subject: seepage sites

Glen,

Further to the cup clover and its requirement of moisture I again would like to point out that there are not any seepage sites within either of the two permit areas. South of the Granby permit area there is a seepage area that is caused by the Granby River, not from moisture coming out of the hillside or from creeks.

Attached are two kmz files - we would appreciate having someone plot the reported cup clover and seepage locations that are the focus of concern.

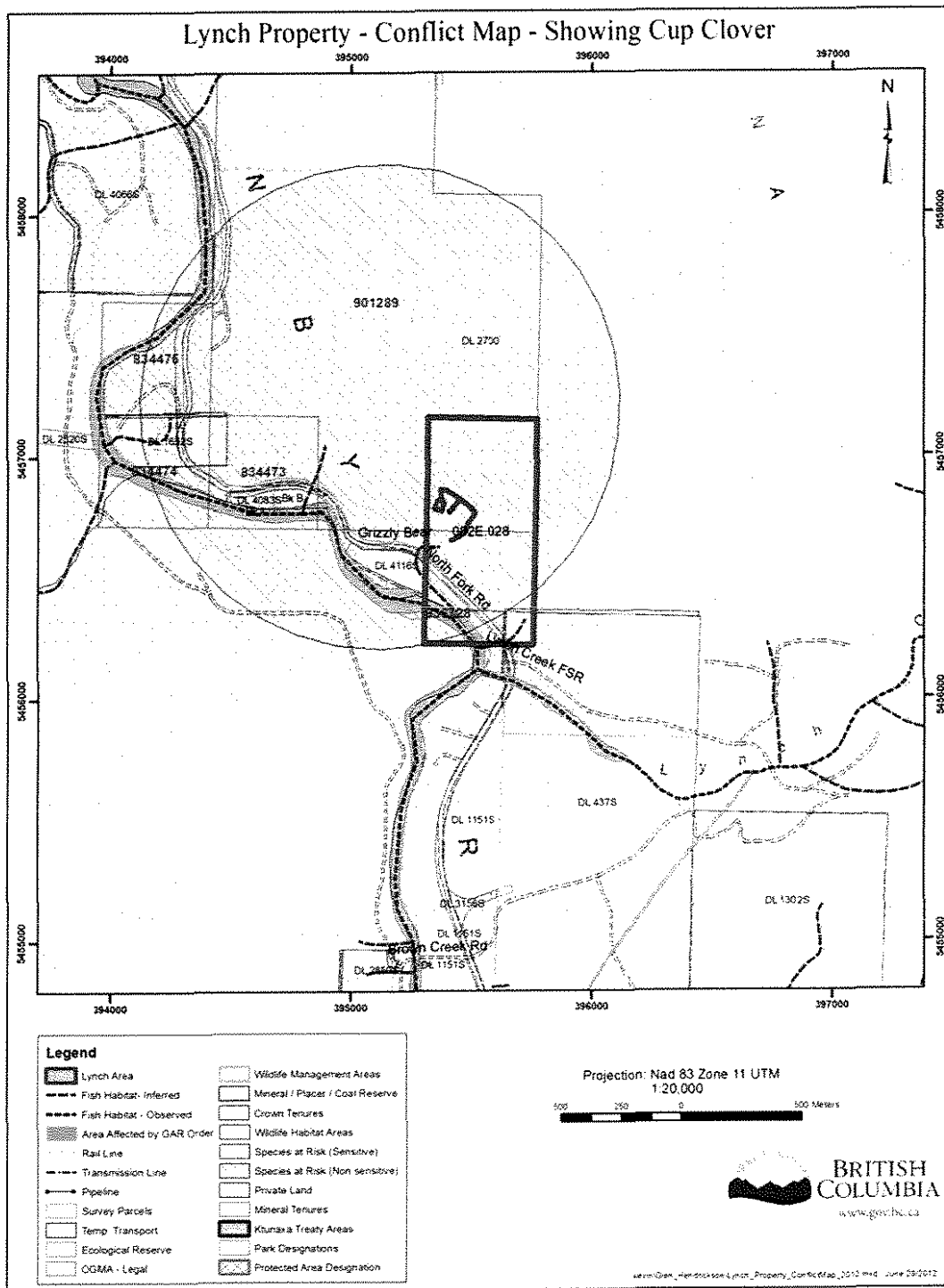
Thank you for your time.

Rick Mitchell



PO Box 933
Vernon, BC
V1T 6M8

tel (250) 542-8960
fax (250) 542-4867



Metcalf, Megan EMNG:EX

From: Discovery Consultants [info@discoveryconsultants.com]
Sent: Wednesday, June 27, 2012 2:43 PM
To: Hendrickson, Glen MEM:EX
Subject: North American Stone - plants

Glen,

Regarding the comment about cup clover being observed, to assist us in identifying the plant's area, please forward a map or coordinates showing the locations.

Note that we are not aware of any wet seepage areas in the proposed exploration areas.

Bill

W.R. Gilmour, P.Geo.

P.O. Box 933
Vernon, BC
V1T 6M8

Tel (250) 542-8960
Fax (250) 542-4867

-----Original Message-----

From: Hendrickson, Glen MEM:EX [mailto:Glen.Hendrickson@gov.bc.ca]
Sent: June-27-12 1:59 PM
To: XT:Mitchell, Rick TRAN:IN
Subject: RE: 1630593 North American Stone - Lynch Creek

Bill,

Please see the attached email below from FLNRO Habitat Biologist Lisa Tedesco. I have consulted with Lisa and found that there have been observed occurrences of this species near your proposed site. As you can see from her email below, a survey by a qualified biologist will be necessary. Lisa did say that this should be easily done in one day in conjunction with your peregrine survey so long as the contractor is confident in plant identification. Let me know if you have further questions.

Glen

Glen Hendrickson
Senior Inspector of Mines, Permitting
Southeast Region
Ministry of Energy and Mines
Phone: 250.426.1705
Cell: s.17

Mike, thanks for addressing this in my absence.

Glen, apologies for missing this in my review. I was certain I had checked the CDC records but must have missed this. Good catch.

S22 so figured I would do an initial follow-up to provide what information I am aware of but hopefully Jenifer will provide additional expertise s.22

The species grows in wet seepage sites so in addition to not disturbing an occurrence site it is also critical to maintain the hydrology at and around the site. If work is completed that interrupts the flow of moisture at or to the occurrence site it may result in the loss of the species. Other red listed species that may grow in the same habitat include hairbell (*Heterocodon rariflorum*), scalepod (*Idaho scapigera*) and Colorado rush (*Juncus confusus*). Jenifer recently delivered rare plant identification training to a group in the Boundary and we visited a site not too far from Lynch where we observed the cup clover, hairbell and rush in close proximity. I think that surveys would need to be completed in the next couple weeks to have the plants in an identifiable state (i.e. flowering).

As many locals have spoken of seepage sites within the application areas a survey for these species should be required. Jenifer can advise on qualified individuals for completing such a survey as rare plant botany is a special area of qualification.

I hope this helps. I will actually be in the office for the remainder of the week now if you have any questions. Regards, Lisa

Lisa Tedesco, Habitat Biologist
Phone: 250-354-6352 Fax: 250-354-6332

-----Original Message-----

From: Discovery Consultants [mailto:info@discoveryconsultants.com]
Sent: Wednesday, June 27, 2012 10:52 AM
To: Hendrickson, Glen MEM:EX
Cc: cathyhe@nastone.ca; XT:Mitchell, Rick TRAN:IN
Subject: RE: 1630593 North American Stone - Lynch Creek

Glen,

Please find attached some information on the cup clover (13a). Note that its habitat is wet meadows to dryish sandy soil. These conditions are not present in the area of the proposed exploration.

Therefore a vegetation survey should not be required.

Bill Gilmour

W.R. Gilmour, P.Geo.

P.O. Box 933
Vernon, BC
V1T 6M8

Tel (250) 542-8960
Fax (250) 542-4867

-----Original Message-----

From: Hendrickson, Glen MEM:EX [mailto:Glen.Hendrickson@gov.bc.ca]
Sent: June-25-12 4:02 PM
To: XT:Mitchell, Rick TRAN:IN
Subject: FW: 1630593 North American Stone - Lynch Creek

Rick,
I have left messages for both Mike and Jenifer requesting more information and will keep you informed.
Cheers,
Glen

From: Knapik, Mike B FLNR:EX
Sent: Friday, June 22, 2012 6:03 PM
To: Hendrickson, Glen MEM:EX
Cc: Penny, Jenifer L ENV:EX; Tedesco, Lisa M FLNR:EX
Subject: RE: 1630593 North American Stone - Lynch Creek

Hi Glenn. Attached is the summary sheet for cup clover. I can tell you it's currently red listed (endangered) in BC. I am including a provincial botanist from Victoria who would have more knowledge of what mitigation may be needed. Although it stands to reason that avoidance of the occurrence sites will be necessary. To that end, a vegetation survey would be required by the proponent before establishing exploration sites. Jenifer, could you provide clarity of what is prudent to manage around this plant species?

Mike Knapik, R.P.Bio
Acting Section Head
Kootenay-Boundary Region
Ministry of Forest, Lands and Natural Resource Operations
#401 - 333 Victoria Street, Nelson, B.C. V1L 4K3
phone: (250) 354-6929 fax: (250) 354-6332 [cid:image003.png@01CD5098.D7085130]

From: Hendrickson, Glen MEM:EX
Sent: Friday, June 22, 2012 10:48 AM
To: Knapik, Mike B FLNR:EX
Subject: 1630593 North American Stone - Lynch Creek

Hello Mike,
In reference to the Lynch Creek mineral exploration project, I had been dealing with Lisa Tedesco
S22 I was wondering if you would be able to connect me with someone who could help me with another issue in regards to this project that has come to my attention?

The project area for Lynch Creek has an ILRR overlap with the Endangered Species - Non-Sensitive Vascular Plant Cup Clover. I would like to know what sort of mitigation measures may be required, and if possible I would like to confirm/deny whether this is an endangered species due to the species being at its northern habitat limit.

If you would be able to help, it would be greatly appreciated, the client has a public information session on July 5th and it would be great if we could have some information for that session.

Cheers,
Glen

Glen Hendrickson
Senior Inspector of Mines, Permitting

Southeast Region
Ministry of Energy and Mines
Phone: 250.426.1705
Cell: S17

Rick_Mitchell_Seepage_Sites_Lynch_Creek

Wednesday, May 8, 2013
2:18 PM

| | |
|---------|--|
| Subject | Rick_Mitchell_Seepage_Sites_Lynch_Creek |
| From | Hendrickson, Glen MEM:EX |
| To | XT:Mitchell, Rick TRAN:IN |
| Sent | Friday, June 29, 2012 8:43 AM |

Rick,
I will check with Lisa, but I think the two week reference basically is in regard to the flowering season. The plants are much easier to identify during this time. I will find out if there is a time requirement and let you know.
Cheers,
Glen

-----Original Message-----

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: Friday, June 29, 2012 8:52 AM
To: Hendrickson, Glen MEM:EX
Cc: cathyhe@nastone.ca
Subject: RE: seepage sites

Glen,
Thanks for the replies. We are aware that Lynch Creek is the focus for the cup clover. The additional information still refers to moisture, which we have none as it is a south facing rock slope. I will forward the biologists comments to the group that will be conducting the survey. Is the two week reference to cup clover a time limit? I do not want to have to wait another season because Ms. Tedesco's opinion is "we did not show due diligence on this".
Thanks for your time on this.

-----Original Message-----

From: Hendrickson, Glen MEM:EX [<mailto:Glen.Hendrickson@gov.bc.ca>]
Sent: June-28-12 1:52 PM
To: XT:Mitchell, Rick TRAN:IN
Subject: RE: seepage sites

Rick,
The other thing is that it is only the Lynch Creek site that the Cup Clover survey is required.
Cheers,
Glen

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: Wednesday, June 27, 2012 6:00 PM
To: Hendrickson, Glen MEM:EX
Cc: XT:Mitchell, Rick TRAN:IN
Subject: FW: seepage sites

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: June-27-12 4:28 PM
To: 'Discovery Consultants'
Subject: seepage sites

Glen,

Further to the cup clover and its requirement of moisture I again would like to point out that there are not any seepage sites within either of the two permit areas. South of the Granby permit area there is a seepage area that is caused by the Granby River, not from moisture coming out of the hillside or from creeks.

Attached are two kmz files - we would appreciate having someone plot the reported cup clover and seepage locations that are the focus of concern.

Thank you for your time.

Rick Mitchell
[cid:image001.jpg@01CD553D.91021050]
PO Box 933
Vernon, BC
V1T 6M8

tel (250) 542-8960
fax (250) 542-4867

Davis, Lynn EMNG:EX

From: XT:Mitchell, Rick TRAN:IN
Sent: Tuesday, August 14, 2012 12:04 PM
To: Hendrickson, Glen MEM:EX
Cc: Bell, Lloyd MEM:EX; cathyhe@nastone.ca; XT:Mitchell, Rick TRAN:IN
Subject: Plant survey 1630593
Attachments: Lynch Fig3 (500)V6Plan2.pdf; XSEC_AA (500)Plan 2.pdf; DSC02577.JPG; DSC02576.JPG; Proposed Cup followup survey.pdf; Habitat Biologist Sample Sites.pdf; DRAFT_Granby Baseline Env Survey.pdf

From: Discovery Consultants [<mailto:info@discoveryconsultants.com>]
Sent: August-14-12 10:35 AM
To: 'Discovery Consultants'
Subject: RE: Plant survey 1630593

Glen,

It is extremely unfortunate that we must continue in circles to complete our tasks here. Please find attached the following:

- Plot of MLFNRO Cup Clover location (Habitat Biologist Sample Sites)
- Photo of the proposed site and MLFNRO reported clover location (DSC02577.jpg)
- Photo of area 25 m southwest of above photo (DSC0276.jpg)
- Draft copy of the Summit Environmental report, dated July 30 (Draft Granby Baseline Env

Survey)

Plan and Section of NEW proposed site to avoid cup clover occurrence (Lynch Fig 3, version 6, Plan 2 and XSEC Plan 2)

Proposed Cup follow-up survey

It is Discovery's opinion that further plant studies are an onerous unnecessary requirement. We hope that by moving the proposed sampling site to an area well below (36 m horizontal and 9 m vertical) the seep that seems to contain an Red Listed plant will provide an easy solution to every ones concerns. This also reduces the footprint of the permit at this time.

Another solution is to go straight to translocation. The area described as clover habitat is only 10x15 m but is in the centre of the original proposed site. This strip can be moved to an approved suitable area about 150 m to the northwest that will be closer to the spring runoff.

Upon review of these proposals could you please give me a call.

Thank you.

Rick Mitchell



PO Box 933
Vernon, BC
V1T 6M8

tel (250) 542-8960
fax (250) 542-4867

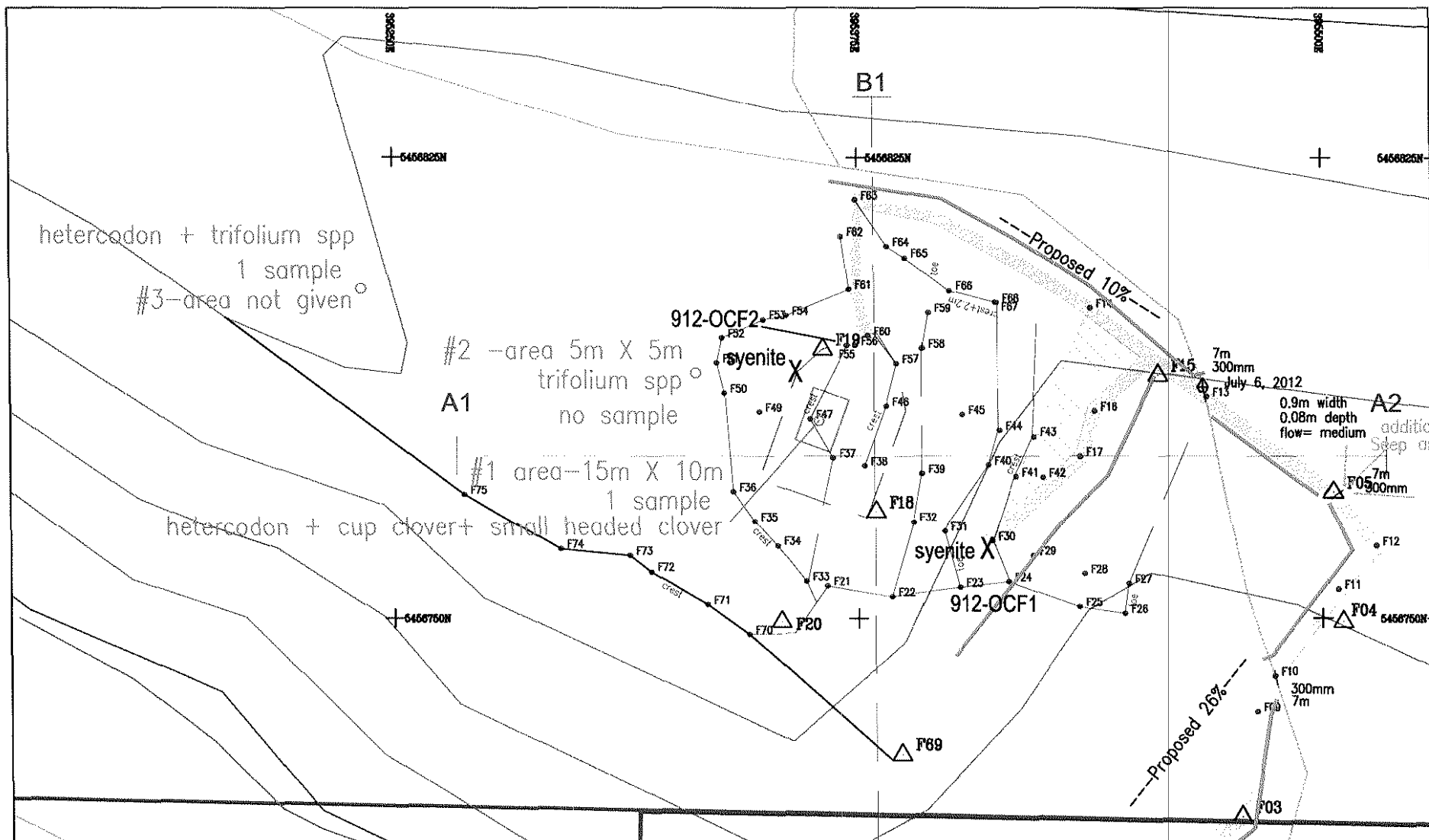
From: Hendrickson, Glen MEM:EX [<mailto:Glen.Hendrickson@gov.bc.ca>]
Sent: August-03-12 3:18 PM
To: XT:Mitchell, Rick TRAN:IN
Subject: Plant survey 1630593

Rick,

Please see the attached letter in reference to the confirmed occurrence of Cup Clover and Hairbell at the Lynch Creek site.

Cheers,
Glen

From: Glen.Hendrickson@gov.bc.ca [<mailto:Glen.Hendrickson@gov.bc.ca>]
Sent: Friday, August 3, 2012 1:27 PM
To: Hendrickson, Glen MEM:EX
Subject:



DISCOVERY

Consultants

North America Stone Inc.

Lynch Creek Bulk Sample Site

Habitat Biologist Sample Sites

| | | | | | |
|--------------------|--------------|---------------|------------------|-----------------------|-----------|
| Date: Aug. 7, 2012 | Project: 912 | Scale: 1:1500 | N.T.S.: 082E.028 | Mining Div: Greenwood | Figure: 1 |
|--------------------|--------------|---------------|------------------|-----------------------|-----------|

Discovery Consultants

From: Corinna Hoodicoff [ch@summit-environmental.com]
Sent: August-13-12 3:43 PM
To: Discovery Consultants (info@discoveryconsultants.com)
Cc: Brian Arquilla
Subject: FW: Granby River proposed bulk sampling permit
Attachments: image001.jpg; Plant locations_lynch1.pdf; aug_3_letter (2).pdf

Rick,

Upon reviewing this information, and the letter from MEM (attached), I'm proposing the following times for the rare plant survey. I've allocated two-days in the field based on the current plan as illustrated in the attached (The sites #1-3 are as noted by MOE/FLNRO below).

Plant Survey Plan and submission to MEM and FLNRO/MOE = 0.5 day

Sample footprint (3,444 m²) = 1 day

Proposed access (~400 m x 8 m) = 1 day

Plus travel to and from the site = 1 day

Sample verification and write up = 2.5 days

Total ~\$6,800 plus disbursements and HST. Note, this does not include time if a Translocation Plan is required as discussions with MOE are required to determine an approved course of action.

According to the letter, the survey must be conducted before Sept 3. As this is a very busy field time, I have identified an expert in rare plants who currently is available for the survey later in the month. I have also discussed with Lisa Tedesco a strategy to expedite the approval of the plant survey plan by MEM and FLNRO/MOE.

I recognize that you are exploring options to move the site, and we can discuss options to adjust the rare plant survey to accommodate the new area before the deadline.

Look forward to talking to you tomorrow.

Regards,

Corinna Hoodicoff, M.Sc., R.P.Bio.

Mgr, Environmental Assessment & Planning

200-2800 29th Street

Vernon, BC, Canada, V1T 9P9



Tel: 250.545.3672 Ext 254

Fax: 250.545.3654

Web: www.summit-environmental.com

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Corinna

Site 1 – within exploration unit

UTM zone 11N, 395361, 5456801

Cup clover, small-headed clover and heterocodon.

Large area, as much as 15m x 10m of suitable habitat

Site within 10m of extraction point F19 (this should make sense to Glen)

Sample taken of both clovers and hairbell without flower

Site 2 – within exploration unit
UTM zone 11N, 395328, 5456814
Small area (5m x 5m) containing just trifolium spp. (both)
No samples taken

Site 3 – outside of exploration site
UTM zone 11N, 395238, 5456837
Both trifolium spp and heterocodon
Sample of heterocodon with flower taken

From: Tedesco, Lisa M FLNR:EX [mailto:Lisa.M.Tedesco@gov.bc.ca]
Sent: August-10-12 2:43 PM
To: Corinna Hoodicoff
Cc: Hendrickson, Glen MEM:EX
Subject: RE: Granby River proposed bulk sampling permit

Hi Corinna,

As discussed, you indicated that the rare plant survey specifications you received from your client included the requirement to have the survey plan reviewed and approved of by Ministry (i.e. Energy and Mines and FLNRO and/or Environment) staff prior to the survey going ahead. I will lay out a process that will meet the expectations of Habitat Management with FLNRO and hopefully expedite the survey process and enable the completion of the survey within this growing season. Please note this process is a Habitat Management proposal and the Ministry of Energy and Mines can still choose to require the survey plan be reviewed by other government staff if they deem it necessary.

When the survey plan is completed please email a copy to me at the same time as it is provided to the Ministry of Energy and Mines. Provided that the plan is submitted on a business day (i.e. Monday to Friday 8am to 4pm) I will endeavour to respond within 24 hrs. If there has been no response from me within this time I would suggest that the survey proceed provided you have the approval to do so from the Ministry of Energy and Mines. If submitted on a weekend or at the end of the Friday work day I will endeavour to respond on the following Monday. Although it would be ideal to have the survey plan reviewed by FLNRO or Environment staff, it is my expectation that the Registered Professional Biologist preparing the survey plan will be working within his or her area of expertise and therefore have the requisite experience to put together an appropriate survey plan.

FLNRO and Environment staff will still want to be engaged in the review and comment of the survey results and any recommended avoidance, mitigation and/or compensation measures.

I hope this provides the additional clarification you required.

Regards, Lisa

Lisa Tedesco BSc, RPBio
Habitat Biologist, Nelson BC
Resource Stewardship, Kootenay-Boundary
Ministry of Forests, Lands and Natural Resource Operations
Phone: (250) 354-6352 Fax: (250) 354-6332

From: Corinna Hoodicoff [<mailto:ch@summit-environmental.com>]
Sent: Friday, August 10, 2012 1:29 PM
To: Tedesco, Lisa M FLNR:EX
Subject: Granby River proposed bulk sampling permit

Hi Lisa,

Just to follow up with our conversation regarding the rare plant survey requirements for the Granby River site, you mentioned you would pass on the details of your requirements to move forward with the application. Thanks!

Regards,

Corinna Hoodicoff, M.Sc., R.P.Bio.
Mgr, Environmental Assessment & Planning
200-2800 29th Street
Vernon, BC, Canada, V1T 9P9



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