

## Easton, Elizabeth J FLNR:EX

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**From:** Rennie, Peter FLNR:EX  
**Sent:** Thursday, July 5, 2012 4:25 PM  
**To:** Spurling, Tamara CSNR:EX  
**Cc:** Marc, Jacques FLNR:EX  
**Subject:** DQU Hwy 97: Invitation to Tender Document

Edits made to documents are highlighted in green. There is no FS1-B for comment, but I think the same 60-40 payment split should be used as for other contracts. Let me know if any other input required, as we need to tender this soon. We should allow 2 weeks for bids from date of posting. Thanks.

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Marc, Jacques FLNR:EX  
**Sent:** Monday, June 25, 2012 2:42 PM  
**To:** Rennie, Peter FLNR:EX  
**Cc:** Spurling, Tamara CSNR:EX  
**Subject:** FW: Invitation to Tender Document

Hello Peter,

Did you ever review these docs and send them back to Tamara for posting?  
It would be good to get them in the hopper this week.

Jacques Marc RFT  
Visual Resource Management Officer  
Resource Practices Branch  
Ph: (250) 387-8481  
Fx: (250) 387-2136

<http://www.for.gov.bc.ca/hfp/values/visual/index.htm>

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**From:** Spurling, Tamara CSNR:EX  
**Sent:** Monday, June 18, 2012 3:58 PM  
**To:** Marc, Jacques FLNR:EX  
**Subject:** RE: Invitation to Tender Document

ITT Draft. Please review and send back for completion.

Schedule B payments, Did you want lump sum?

(documents available on BCBid 2)



Cover sheet.doc



ITT.doc



COT.doc



FSI-A.doc



TOF.doc



Envelope.dot

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**From:** Marc, Jacques FLNR:EX  
**Sent:** Wednesday, June 13, 2012 1:44 PM  
**To:** CSNR Resource Stewardship, Division Contract Requests CSNR:EX  
**Cc:** Spurling, Tamara CSNR:EX  
**Subject:** Invitation to Tender Document

Hello Tamara,

Can you or someone in your group please prepare a Invitation for Tender package to go with the attached schedule A for advertizing on BC Bid.

<< File: SchedA\_DQU\_VLI\_Hwy97\_06Jun2012.doc >>

Thanks

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Hi Jacques, I forget who you wanted these ITT proposals sent to.  
I need to change it on the ITT Docs

Tamara

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**Cc:** Spurling, Tamara CSNR:EX

**Subject:** Invitation to Tender Document

Hello Tamara,

Can you or someone in your group please prepare a Invitation for Tender package to go with the attached schedule A for advertizing on BC Bid.

<< File: SchedA\_DQU\_VLI\_Hwy97\_06Jun2012.doc >>

Thanks

Jacques Marc RFT

Visual Resource Management Officer

Resource Practices Branch

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**Easton, Elizabeth J FLNR:EX**

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**From:** Spurling, Tamara CSNR:EX  
**Sent:** Wednesday, July 11, 2012 2:16 PM  
**To:** Marc, Jacques FLNR:EX  
**Subject:** RE: DQU Hwy 97: Invitation to Tender Document

Yes, I will be there

---

**From:** Marc, Jacques FLNR:EX  
**Sent:** Wednesday, July 11, 2012 2:12 PM  
**To:** Spurling, Tamara CSNR:EX  
**Subject:** RE: DQU Hwy 97: Invitation to Tender Document

Ian will be available.  
Can you specify him and not me.  
Will you be available to help him with the opening?

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---

**From:** Spurling, Tamara CSNR:EX  
**Sent:** Wednesday, July 11, 2012 10:29 AM  
**To:** Marc, Jacques FLNR:EX  
**Subject:** RE: DQU Hwy 97: Invitation to Tender Document

July 25th

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**From:** Marc, Jacques FLNR:EX  
**Sent:** Wednesday, July 11, 2012 10:28 AM  
**To:** Spurling, Tamara CSNR:EX  
**Subject:** RE: DQU Hwy 97: Invitation to Tender Document

What do we have for a closing date.

I'll ask Ian if he will be available.  
Tx

Jacques Marc RFT  
Visual Resource Management Officer  
Resource Practices Branch  
Ph: (250) 387-8481  
Fx: (250) 387-2136

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**From:** Spurling, Tamara CSNR:EX  
**Sent:** Wednesday, July 11, 2012 9:01 AM  
**To:** Marc, Jacques FLNR:EX  
**Subject:** RE: DQU Hwy 97: Invitation to Tender Document

Hi Jacque, I meant who did you want the submissions sent to in the branch?  
Your name is on the ITQ.

Tamara

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**From:** Marc, Jacques FLNR:EX  
**Sent:** Wednesday, July 11, 2012 7:31 AM  
**To:** Spurling, Tamara CSNR:EX  
**Subject:** RE: DQU Hwy 97: Invitation to Tender Document

Good Morning Tamara,

Please post the Quesnel ITT on BC Bid.

We could also send a note to everyone who bid on the Golden Contract as there were 7 bidders.

If we can turn the Sunshine Coast contract ITT around quickly we could have it close the same day.

**S22** these close so will have to make arrangements with Ian to be there.

Jacques Marc RFT  
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Resource Practices Branch  
Ph: (250) 387-8481  
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**Subject:** Invitation to Tender Document

Hello Tamara,

Can you or someone in your group please prepare a Invitation for Tender package to go with the attached schedule A for advertizing on BC Bid.

<< File: SchedA\_DQU\_VLI\_Hwy97\_06Jun2012.doc >>

Thanks

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## Easton, Elizabeth J FLNR:EX

---

**From:** Rennie, Peter FLNR:EX  
**Sent:** Friday, June 8, 2012 2:42 PM  
**To:** Marc, Jacques FLNR:EX  
**Cc:** Puhallo, Lee-ann FLNR:EX; Pelchat, Michael FLNR:EX  
**Subject:** Schedule A: DQU Hwy 97 Update

Excellent, thanks Lee-ann.

Jacques, here is the Schedule A. Can you get this in the hopper to get tendered? This is a fairly straightforward update – I think 2 weeks minimum time for bidders is okay.

Thanks.



SchedA\_DQU\_VLI\_  
Hwy97\_06Jun2012.

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Puhallo, Lee-ann FLNR:EX  
**Sent:** Friday, June 8, 2012 2:34 PM  
**To:** Rennie, Peter FLNR:EX; Pelchat, Michael FLNR:EX  
**Subject:** RE: VLI Contract - Schedule A

Looks standard and reasonable and yes, I will be the local contact for this.

---

**From:** Rennie, Peter FLNR:EX  
**Sent:** Friday, June 8, 2012 12:26 PM  
**To:** Puhallo, Lee-ann FLNR:EX; Pelchat, Michael FLNR:EX  
**Subject:** VLI Contract - Schedule A

Hi Lee-ann and Mike. Attached is a draft Schedule A for updating the Hwy 97 visual inventory. It is fairly generic but I have highlighted in yellow the parts that are specific to our project. Please look it over and let me know your thoughts. Lee-ann I have you as the local contact at the moment.

I don't think this will require too much of your time except for a start-up meeting with the successful contractor and a bit of help with QA near the end. It would be good to get this tendered soon so that most of the field season is available for the field work. Thanks.

<< File: SchedA\_DQU\_VLI\_Hwy97\_06Jun2012.doc >>

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Rennie, Peter FLNR:EX  
**Sent:** Tuesday, March 27, 2012 4:16 PM  
**To:** McArthur, David FLNR:EX; Howse, Kerri L FLNR:EX; Pelchat, Michael FLNR:EX; Black, Mike A FLNR:EX; Lavelle, Kevin FLNR:EX  
**Subject:** VLI Contracts - Schedule A

Hi all, LBIS funding is confirmed to carry out the visual inventory update contracts listed by Jacques below (except that Quesnel lake is DCC). This week and next I'm fairly booked up but after that I will spend some time getting the contract documents going. The way we have set up the process in past years is a team effort: Branch holds \$ in LBIS account, District and region jointly write the schedules, Branch tenders contract and selects lowest qualified bidder and issues contract, district and region administer contract, region provides QA, Branch pays invoices. The first step will be to clearly describe where and what we want done, which will form part of the Schedule A (template attached). 100 Mile only needs a contract extension which Jacques and I can take care of. Feel free to give some thought to this ahead of time if you like, and/or give me a call to discuss. Thanks.

<< File: Schedule A\_VLI\_Template\_(March-2012Ver).docx >>

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Marc, Jacques FLNR:EX  
**Sent:** Thursday, March 22, 2012 9:13 AM  
**To:** Roberge, Luc FLNR:EX  
**Cc:** Davies, Lloyd F FLNR:EX; Rennie, Peter FLNR:EX  
**Subject:** RE: Draft VLI Contract - Schedule A

I have listed all the projects below that we committed to do in LBIS.  
It would be great if we have at least half of the schedule A's prepared and ready to go by early April.  
Luc you have 2, Peter you have 4 and Lloyd you have 3 to do. 100 Mile will be a contract extension.

DPC - Re-inventory Highway 29 Moberly Lake to Hudson's Hope  
DPG - Robson Valley Phase 2, TFL 1 & 41 data entry.

DMH - Complete carryover project.  
DQU - Re-inventory Quesnel Lake  
DQU - Hwy 97 McAllister-Cottonwood Ck  
DRM - Re-inventory entire Rocky Mountain District  
DCO - Re-inventory highway #1 (3 Valley Gap to Glacier NP)

s.17

DSC - Lund to Saltery Bay, Jervis & Princess Royal Inlets etc.  
DCH - Highway 1 Fraser Canyon & Fraser Valley  
DCH - Hwy 3 Hope to Manning & Chilliwack River Valley

Cheers  
Jacques Marc RFT  
Visual Resource Management Officer  
Resource Practices Branch  
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Fx: (250) 387-2136  
<http://www.for.gov.bc.ca/hfp/values/visual/index.htm>



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

Attachment to the Agreement with \_\_\_\_\_ File:  
in the Quesnel District. for Visual Landscape Inventory Project

## DEFINITIONS

1. For the purposes of this Contract the following definitions apply:

VLI	Visual Landscape Inventory
the "VLI Standards"	<i>Visual Landscape Inventory Manual - Procedures and Standards</i> – May 1997 and related VLI 1999 Errata Sheet (see <b>Attachment 2</b> ).
the "VLA Table"	Preliminary Visual Landscape Analysis and Recommendation of Visual Quality Classes table and related directions in the letter dated August 25, 1997 (see <b>Attachment 3</b> ).
Map Sheet	A map indexed using the BCGS 001-100 series (i.e. 093G.001) and usually plotted at a scale of 1:20,000.
Quad Map Sheet	A map indexed using the BCGS 101-125 series (i.e. 093G.101) and plotted at a scale of 1:50,000.
District VLI Tiles	Official district-wide VLI files in ArcView Shape format as obtained from the Recreation Resources Inventory Internet web site: <a href="#">Recreation Resources Inventory Online</a> Three sets of files specific to VLI are available for download: REC_VISUAL_LANDSCAPE_INVENTORY (VLI polygons and attributes); REC_VIEWPOINT_POINT (viewpoint and view arrows data); and, REC_SCREENINGS_POLY (screening data)
the "Digital Standards"	<p>The District VLI Tiles provided in ArcView Shape format comprise the provincial standards for data capture. Any addition to or modification of existing spatial and attributes data must be done in accordance with these provincial standards.</p> <p>The database structure and field names must not be modified or columns moved but temporary fields can be added to the end of the database provided they are deleted once the quality assurance is completed.</p> <p>The District VLI Tiles must be used as the base to spatially capture the new data obtained through this contract. The VLI polygons, viewpoints/view arrows, and screening data must be digitized using the format and structure already set as part of the District VLI Tiles. The actual consolidation of this new data with the existing data may be a requirement under this Contract and will be indicated under "Services" below.</p>
Ministry Representative:	Jacques Marc, Senior Visual Resource Specialist, 9th Floor - 727 Fisgard Street Victoria, BC V8W 9C2 Ph: 250-387-8481 Email: Jacques.Marc@gov.bc.ca



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

Location:	This VLI contract includes the Project Area(s) listed in Table 1 and shown on the map(s) in <b>Attachment 1</b> . Full visual inventory data set is available to view on iMap or to download from the BCGW (WHSE_FOREST_VEGETATION.REC_VISUAL_LANDSCAPE_INVENTORY).								
	<table border="1"><thead><tr><th>Project Area</th><th>Description</th><th>Map Sheets (BCGS quad maps)</th></tr></thead><tbody><tr><td>Hwy 97</td><td>Hwy 97 from south edge of Quesnel District at Mcalister to north edge of district at Greening.</td><td>93B114/115/119/120/124/125/93G104/105</td></tr></tbody></table>	Project Area	Description	Map Sheets (BCGS quad maps)	Hwy 97	Hwy 97 from south edge of Quesnel District at Mcalister to north edge of district at Greening.	93B114/115/119/120/124/125/93G104/105		
Project Area	Description	Map Sheets (BCGS quad maps)							
Hwy 97	Hwy 97 from south edge of Quesnel District at Mcalister to north edge of district at Greening.	93B114/115/119/120/124/125/93G104/105							
	<b>Note:</b> The map sheet numbers listed below may not be all inclusive. Additional map sheets may be required to capture the entire viewshed as assessed in the field. The Contractor is strongly advised to bring extra map sheets in the field to ensure proper coverage.								

## PROVINCE CONTACT(S)

2. All Contract administration inquiries shall be directed to the Ministry Representative.
3. {IF REQUIRED, KEEP THE FOLLOWING TEXT OR DELETE THIS PART IF THE QUALITY ASSURANCE WILL BE DONE BY THE MINISTRY REPRESENTATIVE}  
All Contract technical inquiries and submissions of draft and final deliverables shall be directed to the alternate Ministry Contact who is responsible for quality assurance: Peter Rennie, Landscape Forester, Ministry of Forests, Lands, and Natural Resource Operations, 411 Columbia St., B.C., V2C 2T3 (Phone: 250-828-4175 Fax: 250-828-4154 eMail: [peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca))
4. {IF REQUIRED, KEEP THE FOLLOWING TEXT OR DELETE THIS PART IF THE QUALITY ASSURANCE WILL BE DONE BY THE MINISTRY REPRESENTATIVE}  
All Contract inquiries that are local in nature shall be directed to the alternate Ministry Contact: Lee-ann Puhallo, Stewardship Forester, Ministry of Forests, Lands, and Natural Resource Operations, 322 Johnston Ave, Quesnel, BC V2J 3M5 (Phone: 250-992-4478 email: [Leeann.Puhallo@gov.bc.ca](mailto:Leeann.Puhallo@gov.bc.ca)).

## PURPOSES

5. This Contract is to engage the Contractor to carry out a VLI - Detailed Assessment (the "Services"). The purpose of this detailed assessment within the Location is to:
  - a) Identify the portion of the landscape that is visually sensitive as viewed from on-the-ground or on-the-water and in special circumstances high elevation viewing locations;
  - b) Delineate the visible landscape into Visual Sensitivity Units (VSUs);
  - c) Describe each VSU in terms of its existing visual condition, visual absorption capability, biophysical and viewing characteristics, and classify it into a Visual Sensitivity Class, all of which done by filling out a Classification Form from a key rating point for each of the VSU;
  - d) Locate, map, and capture GPS coordinates of the viewpoint locations and identify and record the viewpoint type as per the VLI Standards;



# SCHEDULE A SERVICES

## for Visual Landscape Inventory Contract

- e) Locate and map view arrows and identify and record the view type as per the VLI Standards;
- f) Locate and map screening locations and identify and record the screening type as per the VLI Standards;
- g) Record panoramic views of all the VSUs with a digital camera (both individual frames and stitched panoramas) and fill out the photographic data as part of the VSU Rating Point Data on the back of the VSU Classification Form; and,
- h) Digitally capture all the field data in ArcView Shape files as per the Digital Standards.

**Note 1:** The Project Areas listed in Table 1 were previously established in Oct.2001, then reviewed and established through Land Act order in 2010. The scope of this contract is to carry out an update of the Project Areas to the new VLI Standards for the TSA land areas, including both Crown and Private lands, and to tie the line work to the inventory polygons for the areas just outside the Project Area (adjacent and overlapping polygons and/or polygons in adjacent districts) where applicable.  
{DELETE NOTE 1 AND RE-NUMBER FOLLOWING NOTES IF THIS CONTRACT IS FOR A NEW INVENTORY}

**Note 2:** The Contractor is to determine and map the appropriate viewshed while considering overlapping areas and multiple viewpoints. The Contractor is required to assess and identify any overlapping viewshed between the project areas in the field, delineate the polygons or VSUs, and complete the VSU Classification Form for each polygon from the VSU Rating Point as defined in the VLI Standards.

**Note 3:** In addition to considering the viewshed overlap among the project areas identified in this contract, the Contractor may also be required to highlight on the check plots any other overlaps with existing VLI mapping previously done from other locations as shown on the District VLI Tiles and resolve the overlaps after review by the Ministry Representative. This requirement applies only if consolidation with Districts VLI Tiles is requested as part of the Services.

**Note 4:** The Contractor is required to carry out the VLI using travel methods which would be used by the average forest visitor or traveler so that similar viewing opportunities can be assessed as required in the VLI Standards. The use of a helicopter or float plane is not an acceptable substitute to actual field work on the ground or water, unless pre-approved by the Province under very special circumstances.

If a VLI project includes the mapping of a lake and/or river viewshed, the Contractor is required to go around the perimeter of the lake and up and/or down the river by boat to capture the entire visible landscape.

**Note 5:** The Contractor is required to complete the mapping and rating of the entire viewshed from the Location(s) identified in this Contract, excluding any viewshed within parks/protected areas, and any visible landforms located more than two (2) QUAD Map Sheets away from any of the viewpoints captured as part of the Contract. The Contractor is also required to map any portions of the viewshed that may fall outside the District VLI Tile area if within the specified range. (The Province will consolidate any data falling outside the district boundary at a later date).

**Note 6:** The Contractor is required to assess and select any viewpoints that may fall outside the Location(s) identified in this Contract if these viewpoints provide views into the Project Areas to be inventoried.

6. Another purpose of this contract is to prepare a VLI Report.

**Note:** Section 6.0 of the VLI Standards presents the minimum content requirements while **Attachment 4** provides a suggested report outline.



# SCHEDULE A SERVICES

## for Visual Landscape Inventory Contract

7. An additional purpose of this Contract is to complete a VLA Table for the project areas. This can take the form of a table summarizing key inventory fields with the addition of rVQCs and accompanying rationales.

**Note:** If a VLA Table is required as part of the Services, it may be submitted separate from the main VLI Report as it is not considered "inventory" data.

8. An additional purpose of this Contract is to consolidate the VLI digital data with the District-wide VLI Tile.

**Note:** If consolidation is required as part of the Services, the "POLY\_NO" must not be re-used for another polygon if an old polygon is deleted. If a polygon requires splitting, the "POLY\_NO" label point can be moved to one of the split polygons and a new "POLY\_NO" given to the other polygon. For new polygons, use the next available "POLY\_NO" (sequentially). Leave "POLY\_ID" blank or with the number that may already appear on file.

## SERVICES

The Contractor shall:

9. In completing the Services, complete the following activities: *(check all that apply)*

- ☒ Attend a pre-work conference prior to commencement of any work;
- ☐ Complete an approved public input process;
- ☒ Schedule a one day visit to the Location of the Services with the Ministry Representative to address calibration of landscape ratings and to identify or confirm, if required, major, minor and potential view points (this may be combined with the pre-work conference);
- ☐ Organize and attend a final meeting with the Province Representative for review of the final deliverables and to identify any further revisions or requirements prior to submission of the final invoice.

10. Carry out the following steps and specified tasks in accordance with Section 2.2.2 - Detailed Assessment, of the VLI Standards:

### Step 1 Pre-Fieldwork

### Step 2 Public Input

A Public Input Process that will include: *(check all that apply)*

{MINISTRY REPRESENTATIVE SHOULD SPECIFY HERE THE TASKS THEY EXPECT THE CONTRACTOR TO CARRY OUT AS PART OF THE PUBLIC INPUT PROCESS. AS A MINIMUM, IT HAS BEEN COMMON PRACTICE TO SOLICIT PUBLIC INPUT USING THE FIRST TWO METHODS BELOW.}

- ☐ Placing advertisements in local newspapers seeking public input on recreational and visual amenities, visual sensitivity, and level of use within the project area(s) (refer to VLI Procedures and Standards Manual (S.2.2.2, Step 5) for request format);
- ☐ Sending a letter directly to key stakeholders and various groups identified from a district contact list to be provided by the Ministry Representative;



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

☐ Meeting with specific groups. Specify: \_\_\_\_\_

**Note:** Depending on the number and type of input received from the written submissions and media advertising, one or more public meetings or open houses may also be required so the contractor may need to modify the work plan and budget, subject to ministry approval.

## Step 3 Inventory Fieldwork

## Step 4 Post-Fieldwork

11. Capture VLI, Viewpoints/View Arrows, and Screening data to current Digital Standards.

12. Provide a VLA Table for the project areas. *(check the one that applies)*

- ☒ VLA Table required for this Contract (see **Attachment 3**).  
☐ VLA Table not required for this Contract.

13. Consolidate new VLI data file with existing data in the District VLI Tile. *(check the one that applies)*

- ☒ Digital consolidation required for this Contract.  
☐ Digital consolidation not required for this Contract.

**Note:** If digital consolidation with the District VLI Tile is not required for this Contract, the Province will provide a Shape file with standard attribute fields ready for digitizing and populating of attributes.

14. Provide a VLI Report. *(check the one that applies)*

- ☒ VLI Report required for this Contract (see **Attachment 4**).  
☐ VLI Report not required for this Contract.

15. Submit in accordance with an approved Work Progress Plan, the VLI Standards, the Digital Standards; and the VLA Table Directions (if required):

a) the following **draft** deliverables for review by the Ministry Representative: *(check all that apply)*

- ☒ One (1) set of all the VLI Quad Map Sheets (1:50,000 scale) showing the new VLI polygons, labels, viewpoint symbols and numbers, view arrows, screening, all base information (see **Attachment 5**), and legend to Digital Standards (see **Attachment 6** for sample map and legend) no later than **Oct.15, 2012**. The check plots can be submitted either in hardcopy format or in plot-ready (pdf) digital format;
- ☒ One (1) updated District VLI Tile (ArcView Shape format) cleaned to Digital Standards no later than **Oct.15, 2012**;
- ☐ One (1) completed attribute database (spreadsheet in xls) hardcopy and digital showing the updated records no later than **{SPECIFY TARGET DATE}**;
- ☒ One (1) set of VLA Table(s) hardcopy and digital (xls) for each of the project area(s) no later than **Oct.15, 2012**; (see **Attachment 3** and **Note 1** below)
- ☒ One (1) draft VLI Report hardcopy and digital (doc), no later than **Oct.15, 2012**; (see Sect. 6 VLI Standards and **Attachment 4**)
- ☐ One (1) digital set of all the individual photographs filed in folders by project name and photo point numbers no later than **{SPECIFY TARGET DATE}**; (see **Notes 2 and 3**)



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

below)

- ☐ One (1) digital set of all the panoramas created from the individual photographs using a panoramic photo stitching software filed in folders by project name and photo point numbers no later than **{SPECIFY TARGET DATE}**;
- ☐ One (1) printed/plotted set of all the photographs taken from each photo point spliced as panoramas and labeled with the following information no later than **{SPECIFY TARGET DATE}**:
  - District and Project Area names;
  - Photo point number;
  - General geographic location;
  - Photographs capture date;
  - View Direction (compass bearing or general direction e.g. "Northwest View")

- ☒ Other: One spreadsheet of viewpoint data (xls), including coordinates, location description, photo panorama references, no later than Oct. 15, 2012.

**Note 1:** If a VLA Table and VLI Report are required, the table must be submitted separate from the main Report as it is not considered "inventory" data.

**Note 2:** Photographs of the landscape must be taken at times when lighting is at its optimum and landforms are clearly visible. Some shade effect is permitted provided it accentuates landform line and shape and does not obscure significant amount of landscape details. Photographs should cover the full view from a given photopoint and taken from left to right with about 30% overlap to allow for proper splicing when creating the panoramas. Truncated panoramas, incomplete labeling, and/or photographs with landscape details obscured by poor lighting or printing quality, clouds or fog will be returned to the Contractor unchecked and the contract quality control put on hold until adequate photographs are submitted for Ministry review.

**Note 3:** Photography Data Forms (see VLI Standards, Appendix 3) are only required if photographs are taken from viewpoints other than VSU Rating Points. Photographic data from VSU Rating Points are to be entered directly on the back of the VSU Classification Forms as indicated.

## PROVINCE

16. The Province shall return the draft deliverables to the Contractor with revision instructions within 30 days of the date received from the Contractor.

**Important Note:** Depending on the complexity/number of changes for a given quad map sheet and/or the accuracy and completeness of the field and/or digital data captured by the Contractor, the Province may need to review more than one check plots for a given map sheet before declaring it up to standards.





# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

## FINAL DELIVERABLES

17. After the Province has declared the draft deliverables up to standards, the Contractor shall deliver the following items no later than **Dec. 14, 2013**.

a) All original documents, maps and digital media provided by the Province at the commencement of the Services;

b) Digital files: *(check all that apply)*:

<input checked="" type="checkbox"/>	Updated District VLI Tiles in ArcView Shape format cleaned to Digital Standards, one Shape file for each of the four data types: VLI Polygons, Viewpoints, View Arrows, and Screenings.
<input checked="" type="checkbox"/>	VLI attributes exported from the Shape file to an Excel format file and formatted as per the sample spreadsheet provided by the Province.
<input checked="" type="checkbox"/>	VLI Report (MS Word file) with the content and format as set out in the VLI Standards and <b>Attachment 4</b> .
<input checked="" type="checkbox"/>	All the individual photographs taken from the photo points on DVD or CD disc filed in folders by project name and photo point numbers (TIFF format preferred; JPEG format acceptable but with as little compression as possible and with Fine or Super Fine resolution settings).
<input checked="" type="checkbox"/>	All the panoramas created from the individual photographs on DVD or CD disc using a panoramic photo stitching software filed in folders by project name and photo point numbers.
<input checked="" type="checkbox"/>	VLA Table (xls format), grouped by Project phase, as set out in <b>Attachment 3</b> .
<input checked="" type="checkbox"/>	Other: Spreadsheet (xls) of viewpoint data, including coordinates, location description, photo panorama references.

c) Hardcopy media: *(check all that apply)*:

<input type="checkbox"/>	{SPECIFY NUMBER (e.g. One (1))} set of all the VLI Map Sheets identified in Part 1 at a scale of 1:50,000 showing the new VLI polygons, labels, viewpoint symbols, type, and numbers, view arrows and types, screening symbols, all base information and legend to Digital Standards (see <b>Attachments 5 and 6</b> ).
<input type="checkbox"/>	{SPECIFY NUMBER (e.g. One (1))} copies of the VLI attributes exported from the Shape file to an Excel format spreadsheet and formatted as per the sample spreadsheet provided by the Province.
<input checked="" type="checkbox"/>	Two copies of the VLI Report with the content and format as set out in the VLI Standards and <b>Attachment 4</b> .
<input checked="" type="checkbox"/>	Two copies of the VLA Table completed for each project area as set out in <b>Attachment 3</b> (to submit on its own, separate from the VLI Report)
<input type="checkbox"/>	{SPECIFY NUMBER (e.g. One (1))} high quality printed/plotted set of all the individual photographs taken from the photo points labeled with the following information: <ul style="list-style-type: none"><li>▼ District and Project Area names</li><li>▼ Photo point number</li></ul>



## SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

<input checked="" type="checkbox"/>	<ul style="list-style-type: none"><li>➤ General geographic location</li><li>➤ Photographs capture date</li><li>➤ View Direction (compass bearing or general view direction e.g. "Northwest View")</li></ul>
<input type="checkbox"/>	<p>{SPECIFY NUMBER (e.g. One (1)) high quality plotted set of all the panoramas created from the individual photographs using a panoramic photo stitching software labeled with the following information:</p> <ul style="list-style-type: none"><li>➤ District and Project Area names</li><li>➤ Photo point number</li><li>➤ General geographic location</li><li>➤ Photographs capture date</li><li>➤ Individual photo number (file names) of all the photographs making up the panorama</li><li>➤ View Direction (extent of the panoramic view as compass bearings or general view direction e.g. "Northwest View")</li></ul>
<input checked="" type="checkbox"/>	Other: Two copies of the viewpoint spreadsheet in xls format.

18. The submission dates stipulated in sections 15 and 17 may be adjusted at the discretion of the Province where circumstances beyond the control of the parties have resulted in delays, e.g. bad weather. The Contractor must contact the Province ahead of time if any of the submission dates cannot be met.

### **SUPPLIES AND EQUIPMENT**

19. The Province will provide: *(check all that apply)*

- ☒ One (1) digital copy of each VLI polygons, Viewpoints, View Arrows, and Screening files (in ArcView Shape format cut to the forest district boundary) to use as the base for the digital data capture.
- ☐ Access to the BC Geographic Warehouse (LRDW) (Land and Resource Data Warehouse). The Contractor shall enter into a data sharing agreement with the Province by registering for a business BCeID (<https://www.bceid.ca>) to access the data from the LRDW needed to produce the VLI Base Maps as described in **Attachment 5**.
- ☐ Local office contact lists to use for the public/stakeholders letter solicitations and names of the newspapers to use for advertisements.
- ☒ One (1) digital template of the VLI Classification Form and VLA Table (doc).
- ☒ One (1) copy of VLI attributes spreadsheet (MS Excel format file or as requested by contractor) following completion of web-based data entry.
- ☐ Other: {SPECIFY ANY OTHER SUPPLIES/EQUIPMENT PROVIDED BY PROVINCE, OR DELETE THIS ROW}.

20. The Contractor will supply all other materials, equipment and transportation required to complete the Services.

### **KEY PERSONNEL**

21. The Services shall be performed by the following "Key Personnel":

a)



## **SCHEDULE A** **SERVICES**

for Visual Landscape Inventory Contract

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b)

c)

### ***SUBCONTRACTORS***

22. Only the following are approved by the Province to be Subcontractors under this Agreement:

a) {SPECIFY NAME or type "NOT APPLICABLE"}



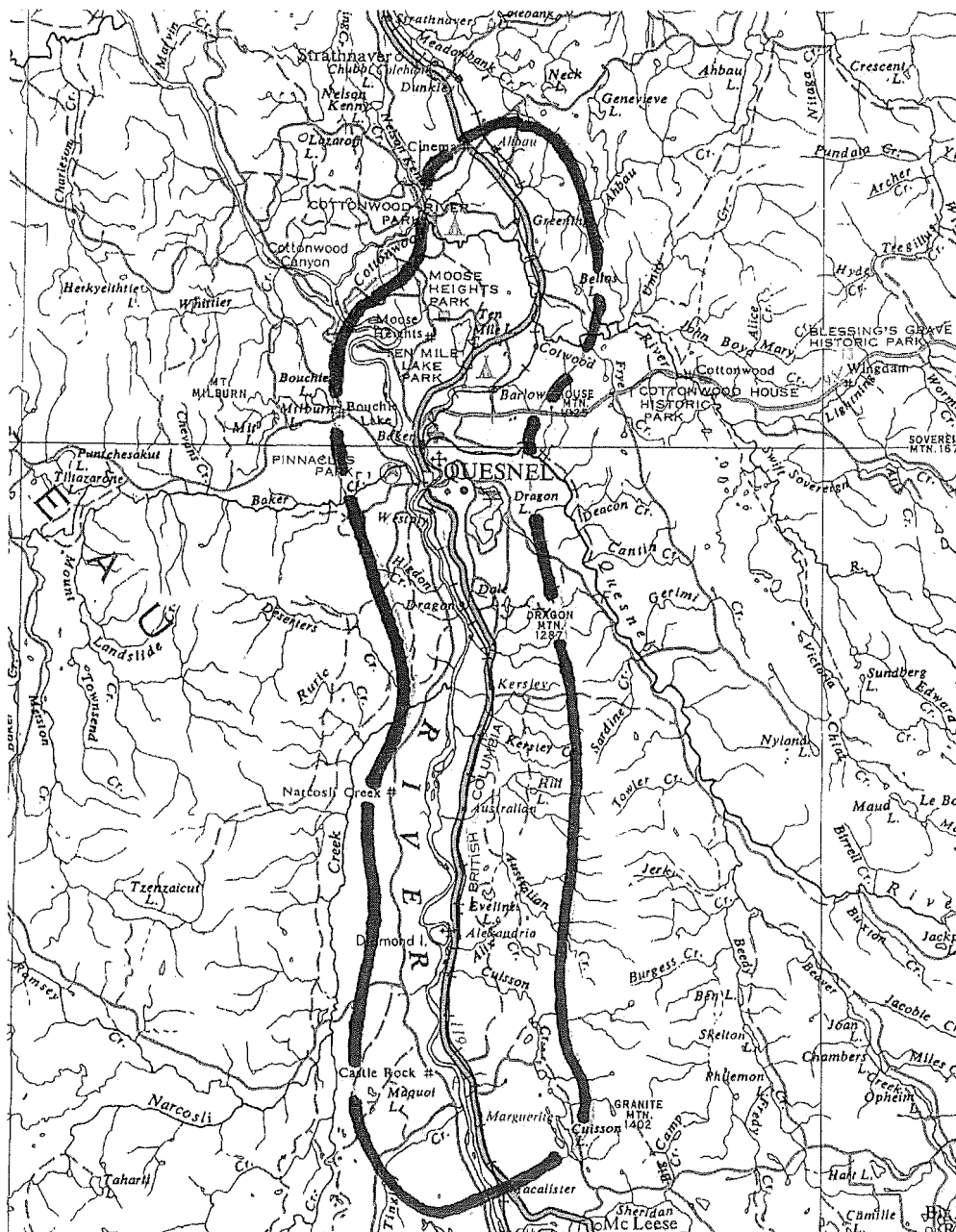
# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

## ATTACHMENT 1

### PROJECT AREA(S) LOCATION MAP

Scale approx. 1:600,000



Note: The boundaries delineated on the map show the general location of the project areas, however the contractor is required to carry out VLI work beyond these general boundaries to encompass all areas that are visible from highways and communities within the project area.



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

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## ATTACHMENT 2

### VISUAL LANDSCAPE INVENTORY STANDARDS – ERRATA SHEET

Minor edits made in 1999 to the Visual Landscape Inventory Procedures and Standards Manual released in 1997. These corrections were included in the VLI Training documents used after the release of the main manual in 1997.

- Pg 30 - 1<sup>st</sup> paragraph under Section 12: last sentence now reads:  
"The better the design, the greater the influence"  
(instead of "The poorer the design the greater the influence").
- Pg 30 - Section 12: switch text between columns 1 (High) and 3 (Low) (to reflect that "High" means good or better design and that "Low" means square or angular in shape).
- Pg 31 - Section 13: switch text between columns 1 (High) and 3 (Low) (to reflect that High means site disturbances are subordinate and Low means site disturbances dominate the unit).
- Pg 36 - Section 19: remove option C from table. No longer a valid descriptor.
- Pg 40 - Section 23: add "k. Ridgelines" as type of edge.
- Pg 42 - Section 26: change the rating value for Low from 2 to 1 in the table header.
- Pg 53 - Section 5.8 items 4 in the VSC table: replace the word "risk" with "low probability".
- Pg 53 - Section 5.8 items 5 in the VSC table: replace the words "small risk" with "very low probability".

## ATTACHMENT 3

## VISUAL LANDSCAPE ANALYSIS TABLE



## PRELIMINARY VISUAL LANDSCAPE ANALYSIS AND RECOMMENDATION OF VISUAL QUALITY CLASSES

Forest-District:- \_\_\_\_\_ → VLI-Project-Name:- \_\_\_\_\_  
 VLI-Completion/Update-Date:- \_\_\_\_\_ → VLI-Completed-by:- \_\_\_\_\_  
 Analysis-Report-Completion-Date:- \_\_\_\_\_  
 Analysis-Report-Completed-by:- \_\_\_\_\_ → Affiliation:- \_\_\_\_\_

[illegible][illegible]

<sup>1</sup> As per MoF directions for visual landscape analysis (Memo dated August 25, 1997)

(VLA-RVQC Table doc: Version September 2006) → Page: 1 of 19

## DIRECTIONS FOR THE COMPLETION OF VLA TABLES

1. A Recommended Visual Quality Class (RVQC) should be understood to be a specialist's recommendation that describes the level of alteration that would be appropriate for a visual sensitivity unit based on the inventory data.  
The RVQC does not comprehensively consider all socio-economic factors, is not determined through a planning or decision making process and is not necessarily endorsed by government or other stakeholders. RVQCs are not established Visual Quality Objectives under the Forest and Range Practices Act but are considered along with social, economic, biophysical and other resource value objectives when establishing VQOs.



## **SCHEDULE A** **SERVICES**

for Visual Landscape Inventory Contract

2. RVQC's should be determined and recorded as follows:

- determine a default RVQC based on the VSC by using the following table:

	Visual Sensitivity Class (VSC)				
	1	2	3	4	5
RVQC	P-R	R-PR	PR-M	PR-M-MM	M-MM

- determine a final RVQC, based on professional judgement and guided by long-standing but largely undocumented experiences and methods.
  - record the default and final RVQC and where the default and final RVQCs are different, record the rationale for this difference on the attached table.
3. RVQC's may be derived at the time a visual landscape inventory (VLI) is completed if requested but must be kept separate from the VLI Report since RVQC ratings are not considered "inventory" data per se.
4. RVQC's are stored digitally as an administrative attribute within the corporate recreation inventory data base.



# **SCHEDULE A**

## **SERVICES**

for Visual Landscape Inventory Contract

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### **ATTACHMENT 4**

#### **SAMPLE VISUAL LANDSCAPE INVENTORY REPORT OUTLINE**

- 1.0 INTRODUCTION/BACKGROUND**
- 2.0 PROJECT AREA DESCRIPTION**
- 3.0 PROJECT PLANNING AND METHODOLOGY**
  - 3.1 VLI Standards and Procedures
  - 3.2 Support Materials
  - 3.3 Deliverables
  - 3.4 Responsibilities and Ministry Liaison
- 4.0 VISUAL LANDSCAPE INVENTORY**
  - 4.1 Identification of Recreation and Visual Resource Values (Public/Stakeholders Solicitation)
  - 4.2 Summary of Written and Verbal Input Received
  - 4.3 Identification of Viewpoints
  - 4.4 Field Mapping of the Visible Landscape, Viewpoint, View Arrows, and Screening
  - 4.5 Summary of Visual Sensitivity Unit Classifications
    - 4.5.1 Existing Visual Conditions (EVC)
    - 4.5.2 Visual Absorption Capability (VAC)
    - 4.5.3 Biophysical Rating (BR)
    - 4.5.4 Viewing Condition (VC)
    - 4.5.5 Viewer Rating (VR)
    - 4.5.6 Visual Sensitivity Class (VSC)
  - 4.6 Digital Data Capture
- 5.0 RECOMMENDATIONS AND CONCLUSIONS**
- 6.0 PROJECT SCHEDULE BY VLI STEPS (see Section 10)**
- 7.0 PROJECT PERSONNEL**

#### **LIST OF APPENDICES**

- Appendix 1 Key Map of the Project Area
- Appendix 2 Copy of Media Advertisement & Letter to Stakeholders
- Appendix 3 List of Public/Agencies/Stakeholders Contacted
- Appendix 4 Copy of All Written Responses Received
- Appendix 5 Copy of all VSU Classification Forms
- Appendix 6 Catalogued Photographs of Visual Sensitivity Units
- Appendix 7 Copy of all Photography Data Forms
- Appendix 8 1:50,000 Scale Hardcopy Maps





# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

## ATTACHMENT 5

### BASE DATA REQUIRED ON HARDCOPY CHECK PLOTS (1:50,000 SCALE)

### AND VLI LABEL FORMAT

Base Data (BCALBERS, NAD83)	Corresponding Data Names on LRDW
TRIM Water Features	WHSE_BASEMAPPING.TRIM_WATER_LINES WHSE_BASEMAPPING.TRIM_EBM_WATERCOURSES WHSE_BASEMAPPING.TRIM_EBM_WATERBODIES WHSE_BASEMAPPING.TRIM_EBM_OCEAN
Existing Openings	WHSE_FOREST_TENURE.FTEN_CUT_BLOCK_POLYGONS WHSE_FOREST_VEGETATION.RSLT_OPENING_POLY WHSE_FOREST_VEGETATION.RSLT_OPENING_SVW
TRIM Paved and Gravel Roads, Trails, Transmission Lines, Railways, Pipelines  <b>Note:</b> The various features of the TRANSPORTATION_LINES layer can be symbolized individually by clicking on the Layer Properties and assigning different symbols to individual Feature Codes. The Feature Codes Definitions can be found at: <a href="#">Geographic Feature Catalogue</a>	WHSE_BASEMAPPING.TRIM_TRANSPORTATION_LINES WHSE_FOREST_TENURE.FTEN_ROAD_LINES
TRIM Annotations	WHSE_BASEMAPPING.TRIM_TEXT_ANNO
TRIM Contour Lines and Elevation Labels (thinned out)	WHSE_BASEMAPPING.TRIM_CONTOUR_LINES
TRIM Wooded Areas	WHSE_BASEMAPPING.TRIM_LAND_COVER_LINES
TRIM 1:20,000 BCGS Grid (with mapsheet number) TRIM 1:50,000 grid	WHSE_BASEMAPPING.BCGS_20K_GRID WHSE_BASEMAPPING.DBM_MOF_50K_GRID
TRIM Icefields, Glaciers	WHSE_BASEMAPPING.TRIM_EBM_ICEMASSES
Forest District and TFL Boundaries*	WHSE_ADMIN_BOUNDARIES.FADM_DISTRICT WHSE_ADMIN_BOUNDARIES.FADM_TFL
Private Land Ownership	WHSE_CADASTRE.ICI_PARCEL_FABRIC_PUBLIC_VW WHSE_TANTALIS.TA_SURVEY_PARCEL_SHAPES
Protected Areas/Parks/Ecological Reserves and Name Labels	WHSE_TANTALIS.TA_PARK_ECORES_PA_SVW WHSE_ADMIN_BOUNDARIES.CLAB_NATIONAL_PARKS
LRDW - VLI Polygons (black outline; themed on <b>VSC_FINAL</b> ) and Black Polygon Labels (see label format below)	<b>UPDATE:</b> <a href="http://srmapps.gov.bc.ca/apps/rec/">http://srmapps.gov.bc.ca/apps/rec/</a> <b>LRDW VIEW ONLY:</b> WHSE_FOREST_VEGETATION.REC_VISUAL_LANDSCAPE_INVENTORY
ADJACENT DISTRICT – VLI Polygons;	<b>LRDW VIEW ONLY:</b>



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

Base Data (BCALBERS, NAD83)	Corresponding Data Names on LRDW
(grey outline themed on <b>VSC final</b> ) and Grey Polygon Labels (see <b>Attachment 4</b> ).	WHSE_FOREST_VEGETATION.REC_VISUAL_LANDSCAPE_INVENTORY
LOCAL - VLI Polygons (purple outline; themed on <b>VSC final</b> ) and Purple Polygon Labels.	Local source (if any)
Viewpoints, Viewing Direction & Screening	<b>UPDATE:</b> <a href="http://srmapps.gov.bc.ca/apps/rec/">http://srmapps.gov.bc.ca/apps/rec/</a> plus local source <b>LRDW VIEW ONLY:</b> WHSE_FOREST_VEGETATION.REC_VIEWPOINTS_POINT WHSE_FOREST_VEGETATION.REC_SCREENINGS_POLY WHSE_FOREST_VEGETATION.REC_VIEWING_DIRECTION_LIN

VLI Polygon Label Format	Corresponding Field Names in VLI Shape File
POLY_NO EVC VAC BR VC VR VSC	<ul style="list-style-type: none"> <li>• POLY_NO (Polygon Number)</li> <li>• EVC_FINAL (Existing Visual Condition)</li> <li>• VAC_FINAL (Visual Absorption Capability)</li> <li>• BR_FINAL (Biophysical Rating)</li> <li>• VC_FINAL (Viewing Condition)</li> <li>• VR_FINAL (Viewer Rating)</li> <li>• VSC_FINAL (Visual Sensitivity Class)</li> </ul>





## Easton, Elizabeth J FLNR:EX

---

**From:** Rennie, Peter FLNR:EX  
**Sent:** Friday, September 30, 2011 12:22 PM  
**To:** Marc, Jacques FLNR:EX  
**Cc:** Van der Zwan, Ron FLNR:EX; Nedokus, Ed FLNR:EX; McRae, Ted B FLNR:EX; Lohr, Christine P FLNR:EX; Howse, Kerri L FLNR:EX; Pelchat, Michael FLNR:EX; Black, Mike A FLNR:EX; DeCourcy, Tara D FLNR:EX; Lavelle, Kevin FLNR:EX  
**Subject:** LBIS 2012: Visual Projects

Hi Jacques, here is what we have as a first crack for next year's LBIS projects, based on feedback received so far:

DMH: (estimated carry-over from current contract)  
DCC: (Quesnel Lake)  
DQU: (Hwy 97 McAllister-Cottonwood Ck)  
DRM: S17 (update entire district, in 6 phases)  
DCO: (Hwy 1 3 Valley Gap-Glacier Ntl Pk)  
DOS:

Not necessarily in order of priority at this time. Thanks.

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Rennie, Peter FLNR:EX  
**Sent:** Monday, September 26, 2011 11:45 AM  
**To:** Van der Zwan, Ron FLNR:EX; Nedokus, Ed FLNR:EX; McRae, Ted B FLNR:EX; Lohr, Christine P FLNR:EX; Howse, Kerri L FLNR:EX; Pelchat, Michael FLNR:EX; Black, Mike A FLNR:EX; DeCourcy, Tara D FLNR:EX; Lavelle, Kevin FLNR:EX  
**Subject:** LBIS 2012: Visual Projects

Hi everyone. Jacques needs some rough info/estimates to provide to LBIS for next fiscal year's visual inventory projects. Priorities over past few years have focused on reviewing/updating inventories in areas where mid-term timber supply from MPB is an issue. Over past 2 years we have directed LBIS funds to:

DKL: inventory update of entire district (~35,000)  
DCC: inventory update of select areas (~29,0000)  
DOS: inventory update of select areas (~9,000)  
DMH: inventory update of entire district (~48,000)

I already know that there may be some carry-over of unfinished inventory in DMH, and that updating Quesnel Lake is a further priority for DCC. Beyond that, we need your priorities for updating visual areas within your district. I believe Jacques needs some rough descriptions/estimates by end of Sept. So anything you can identify by end of week would be appreciated. I can help put some rough numbers to your projects if you identify the areas. I think the main objective right now is to identify projects. If and when funding becomes available we can discuss how to best allocate it.

Thanks in advance for your input.

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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## Riehl, Shannon CSNR:EX

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**From:** Rennie, Peter FLNR:EX  
**Sent:** Friday, June 8, 2012 2:42 PM  
**To:** Marc, Jacques FLNR:EX  
**Cc:** Puhallo, Lee-ann FLNR:EX; Pelchat, Michael FLNR:EX  
**Subject:** Schedule A: DQU Hwy 97 Update

Excellent, thanks Lee-ann.

Jacques, here is the Schedule A. Can you get this in the hopper to get tendered? This is a fairly straightforward update I think 2 weeks minimum time for bidders is okay.  
Thanks.



SchedA DQU VLI  
Hwy97 06Jun2012.

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Puhallo, Lee-ann FLNR:EX  
**Sent:** Friday, June 8, 2012 2:34 PM  
**To:** Rennie, Peter FLNR:EX; Pelchat, Michael FLNR:EX  
**Subject:** RE: VLI Contract - Schedule A

Looks standard and reasonable and yes, I will be the local contact for this.

**From:** Rennie, Peter FLNR:EX  
**Sent:** Friday, June 8, 2012 12:26 PM  
**To:** Puhallo, Lee-ann FLNR:EX; Pelchat, Michael FLNR:EX  
**Subject:** VLI Contract - Schedule A

Hi Lee-ann and Mike. Attached is a draft Schedule A for updating the Hwy 97 visual inventory. It is fairly generic but I have highlighted in yellow the parts that are specific to our project. Please look it over and let me know your thoughts. Lee-ann I have you as the local contact at the moment.

I don't think this will require too much of your time except for a start-up meeting with the successful contractor and a bit of help with QA near the end. It would be good to get this tendered soon so that most of the field season is available for the field work. Thanks.

<< File: SchedA\_DQU\_VLI\_Hwy97\_06Jun2012.doc >>

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Rennie, Peter FLNR:EX  
**Sent:** Tuesday, March 27, 2012 4:16 PM  
**To:** McArthur, David FLNR:EX; Howse, Kerri L FLNR:EX; Pelchat, Michael FLNR:EX; Black, Mike A FLNR:EX; Lavelle, Kevin

FLNR:EX

**Subject:** VLI Contracts - Schedule A

Hi all, LBIS funding is confirmed to carry out the visual inventory update contracts listed by Jacques below (except that Quesnel lake is DCC). This week and next I'm fairly booked up but after that I will spend some time getting the contract documents going. The way we have set up the process in past years is a team effort: Branch holds \$ in LBIS account, District and region jointly write the schedules, Branch tenders contract and selects lowest qualified bidder and issues contract, district and region administer contract, region provides QA, Branch pays invoices. The first step will be to clearly describe where and what we want done, which will form part of the Schedule A (template attached). 100 Mile only needs a contract extension which Jacques and I can take care of. Feel free to give some thought to this ahead of time if you like, and/or give me a call to discuss. Thanks.

<< File: Schedule A\_VLI\_Template\_(March-2012Ver).docx >>

Peter

ph: (250) 828-4175 fax: (250) 828-4154

[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Marc, Jacques FLNR:EX

**Sent:** Thursday, March 22, 2012 9:13 AM

**To:** Roberge, Luc FLNR:EX

**Cc:** Davies, Lloyd F FLNR:EX; Rennie, Peter FLNR:EX

**Subject:** RE: Draft VLI Contract - Schedule A

I have listed all the projects below that we committed to do in LBIS.

It would be great if we have at least half of the schedule A's prepared and ready to go by early April.

Luc you have 2, Peter you have 4 and Lloyd you have 3 to do. 100 Mile will be a contract extension.

DPC - Re-inventory Highway 29 Moberly Lake to Hudson's Hope

DPG - Robson Valley Phase 2, TFL 1 & 41 data entry.

DMH - Complete carryover project.

DQU - Re-inventory Quesnel Lake

DQU - Hwy 97 McAllister-Cottonwood Ck

DRM - Re-inventory entire Rocky Mountain District

s.17

DCO - Re-inventory highway #1 (3 Valley Gap to Glacier NP)

DSC - Lund to Saltery Bay, Jervis & Princess Royal Inlets etc.

DCH - Highway 1 Fraser Canyon & Fraser Valley

DCH - Hwy 3 Hope to Manning & Chilliwack River Valley

Cheers

Jacques Marc RFT

Visual Resource Management Officer

Resource Practices Branch

Ph: (250) 387-8481

Fx: (250) 387-2136

<http://www.for.gov.bc.ca/hfp/values/visual/index.htm>

## Riehl, Shannon CSNR:EX

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**From:** Rennie, Peter FLNR:EX  
**Sent:** Friday, June 8, 2012 12:26 PM  
**To:** Puhallo, Lee-ann FLNR:EX; Pelchat, Michael FLNR:EX  
**Subject:** VLI Contract - Schedule A

Hi Lee-ann and Mike. Attached is a draft Schedule A for updating the Hwy 97 visual inventory. It is fairly generic but I have highlighted in yellow the parts that are specific to our project. Please look it over and let me know your thoughts. Lee-ann I have you as the local contact at the moment.

I don't think this will require too much of your time except for a start-up meeting with the successful contractor and a bit of help with QA near the end. It would be good to get this tendered soon so that most of the field season is available for the field work. Thanks.



SchedA DQU VLI  
Hwy97 06Jun2012.

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

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**From:** Rennie, Peter FLNR:EX  
**Sent:** Tuesday, March 27, 2012 4:16 PM  
**To:** McArthur, David FLNR:EX; Howse, Kerri L FLNR:EX; Pelchat, Michael FLNR:EX; Black, Mike A FLNR:EX; Lavelle, Kevin FLNR:EX  
**Subject:** VLI Contracts - Schedule A

Hi all, LBIS funding is confirmed to carry out the visual inventory update contracts listed by Jacques below (except that Quesnel lake is DCC). This week and next I'm fairly booked up but after that I will spend some time getting the contract documents going. The way we have set up the process in past years is a team effort: Branch holds \$ in LBIS account, District and region jointly write the schedules, Branch tenders contract and selects lowest qualified bidder and issues contract, district and region administer contract, region provides QA, Branch pays invoices. The first step will be to clearly describe where and what we want done, which will form part of the Schedule A (template attached). 100 Mile only needs a contract extension which Jacques and I can take care of. Feel free to give some thought to this ahead of time if you like, and/or give me a call to discuss. Thanks.

<< File: Schedule A\_VLI\_Template\_(March-2012Ver).docx >>

Peter  
ph: (250) 828-4175 fax: (250) 828-4154  
[Mailto:peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca)

*Material and opinions contained herein are solely those of the author and do not necessarily represent in whole or in part the position of the BC Ministry of Forests.*

**From:** Marc, Jacques FLNR:EX  
**Sent:** Thursday, March 22, 2012 9:13 AM  
**To:** Roberge, Luc FLNR:EX  
**Cc:** Davies, Lloyd F FLNR:EX; Rennie, Peter FLNR:EX  
**Subject:** RE: Draft VLI Contract - Schedule A



I have listed all the projects below that we committed to do in LBIS.  
It would be great if we have at least half of the schedule A's prepared and ready to go by early April.  
Luc you have 2, Peter you have 4 and Lloyd you have 3 to do. 100 Mile will be a contract extension.

DPC - Re-inventory Highway 29 Moberly Lake to Hudson's Hope  
DPG - Robson Valley Phase 2, TFL 1 & 41 data entry.

DMH - Complete carryover project.  
DQU - Re-inventory Quesnel Lake  
DQU - Hwy 97 McAllister-Cottonwood Ck  
DRM - Re-inventory entire Rocky Mountain District  
DCO - Re-inventory highway #1 (3 Valley Gap to Glacier NP)

s.17

DSC - Lund to Saltery Bay, Jervis & Princess Royal Inlets etc.  
DCH - Highway 1 Fraser Canyon & Fraser Valley  
DCH - Hwy 3 Hope to Manning & Chilliwack River Valley

Cheers  
Jacques Marc RFT  
Visual Resource Management Officer  
Resource Practices Branch  
Ph: (250) 387-8481  
Fx: (250) 387-2136  
<http://www.for.gov.bc.ca/hfp/values/visual/index.htm>



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

Attachment to the Agreement with \_\_\_\_\_ File:  
in the **Quesnel District** for Visual Landscape Inventory Project

## DEFINITIONS

1. For the purposes of this Contract the following definitions apply:

VLI	Visual Landscape Inventory
the "VLI Standards"	<i>Visual Landscape Inventory Manual - Procedures and Standards</i> – May 1997 and related VLI 1999 Errata Sheet (see <b>Attachment 2</b> ).
the "VLA Table"	Preliminary Visual Landscape Analysis and Recommendation of Visual Quality Classes table and related directions in the letter dated August 25, 1997 (see <b>Attachment 3</b> ).
Map Sheet	A map indexed using the BCGS 001-100 series (i.e. 093G.001) and usually plotted at a scale of 1:20,000.
Quad Map Sheet	A map indexed using the BCGS 101-125 series (i.e. 093G.101) and plotted at a scale of 1:50,000.
District VLI Tiles	Official district-wide VLI files in ArcView Shape format as obtained from the Recreation Resources Inventory Internet web site: <a href="#">Recreation Resources Inventory Online</a> Three sets of files specific to VLI are available for download: REC_VISUAL_LANDSCAPE_INVENTORY (VLI polygons and attributes); REC_VIEWPOINT_POINT (viewpoint and view arrows data); and, REC_SCREENINGS_POLY (screening data)
the "Digital Standards"	<p>The District VLI Tiles provided in ArcView Shape format comprise the provincial standards for data capture. Any addition to or modification of existing spatial and attributes data must be done in accordance with these provincial standards.</p> <p>The database structure and field names must not be modified or columns moved but temporary fields can be added to the end of the database provided they are deleted once the quality assurance is completed.</p> <p>The District VLI Tiles must be used as the base to spatially capture the new data obtained through this contract. The VLI polygons, viewpoints/view arrows, and screening data must be digitized using the format and structure already set as part of the District VLI Tiles. The actual consolidation of this new data with the existing data may be a requirement under this Contract and will be indicated under "Services" below.</p>
Ministry Representative:	Jacques Marc, Senior Visual Resource Specialist, 9th Floor - 727 Fisgard Street Victoria, BC V8W 9C2 Ph: 250-387-8481 Email: <a href="mailto:Jacques.Marc@gov.bc.ca">Jacques.Marc@gov.bc.ca</a>

# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

Location:	<p>This VLI contract includes the Project Area(s) listed in Table 1 and shown on the map(s) in <b>Attachment 1</b>. Full visual inventory data set is available to view on iMap or to download from the BCGW (WHSE_FOREST_VEGETATION.REC_VISUAL_LANDSCAPE_INVENTORY).</p> <table border="1"> <thead> <tr> <th>Project Area</th> <th>Description</th> <th>Map Sheets (BCGS quad maps)</th> </tr> </thead> <tbody> <tr> <td>Hwy 97</td> <td>Hwy 97 from south edge of Quesnel District at Mcalister to north edge of district at Greening.</td> <td>93B114/115/119/120/124/125/93G104/105</td> </tr> </tbody> </table> <p><b>Note:</b> The map sheet numbers listed below may not be all inclusive. Additional map sheets may be required to capture the entire viewshed as assessed in the field. The Contractor is strongly advised to bring extra map sheets in the field to ensure proper coverage.</p>			Project Area	Description	Map Sheets (BCGS quad maps)	Hwy 97	Hwy 97 from south edge of Quesnel District at Mcalister to north edge of district at Greening.	93B114/115/119/120/124/125/93G104/105
Project Area	Description	Map Sheets (BCGS quad maps)							
Hwy 97	Hwy 97 from south edge of Quesnel District at Mcalister to north edge of district at Greening.	93B114/115/119/120/124/125/93G104/105							

## PROVINCE CONTACT(S)

2. All Contract administration inquiries shall be directed to the Ministry Representative.
3. {IF REQUIRED, KEEP THE FOLLOWING TEXT OR DELETE THIS PART IF THE QUALITY ASSURANCE WILL BE DONE BY THE MINISTRY REPRESENTATIVE}  
All Contract technical inquiries and submissions of draft and final deliverables shall be directed to the alternate Ministry Contact who is responsible for quality assurance: Peter Rennie, Landscape Forester, Ministry of Forests, Lands, and Natural Resource Operations, 411 Columbia St., B.C., V2C 2T3 (Phone: 250-828-4175 Fax: 250-828-4154 eMail: [peter.rennie@gov.bc.ca](mailto:peter.rennie@gov.bc.ca))
4. {IF REQUIRED, KEEP THE FOLLOWING TEXT OR DELETE THIS PART IF THE QUALITY ASSURANCE WILL BE DONE BY THE MINISTRY REPRESENTATIVE}  
All Contract inquiries that are local in nature shall be directed to the alternate Ministry Contact: Lee-ann Puhallo, Stewardship Forester, Ministry of Forests, Lands, and Natural Resource Operations, 322 Johnston Ave, Quesnel, BC V2J 3M5 (Phone: 250-992-4478 email: [Leeann.Puhallo@gov.bc.ca](mailto:Leeann.Puhallo@gov.bc.ca)).

## PURPOSES

5. This Contract is to engage the Contractor to carry out a VLI - Detailed Assessment (the "Services"). The purpose of this detailed assessment within the Location is to:
  - a) Identify the portion of the landscape that is visually sensitive as viewed from on-the-ground or on-the-water and in special circumstances high elevation viewing locations;
  - b) Delineate the visible landscape into Visual Sensitivity Units (VSUs);
  - c) Describe each VSU in terms of its existing visual condition, visual absorption capability, biophysical and viewing characteristics, and classify it into a Visual Sensitivity Class, all of which done by filling out a Classification Form from a key rating point for each of the VSU;
  - d) Locate, map, and capture GPS coordinates of the viewpoint locations and identify and record the viewpoint type as per the VLI Standards;



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

- e) Locate and map view arrows and identify and record the view type as per the VLI Standards;
- f) Locate and map screening locations and identify and record the screening type as per the VLI Standards;
- g) Record panoramic views of all the VSUs with a digital camera (both individual frames and stitched panoramas) and fill out the photographic data as part of the VSU Rating Point Data on the back of the VSU Classification Form; and,
- h) Digitally capture all the field data in ArcView Shape files as per the Digital Standards.

**Note 1:** The Project Areas listed in Table 1 were previously established in Oct.2001, then reviewed and established through Land Act order in 2010. The scope of this contract is to carry out an update of the Project Areas to the new VLI Standards for the TSA land areas, including both Crown and Private lands, and to tie the line work to the inventory polygons for the areas just outside the Project Area (adjacent and overlapping polygons and/or polygons in adjacent districts) where applicable.  
{DELETE NOTE 1 AND RE-NUMBER FOLLOWING NOTES IF THIS CONTRACT IS FOR A NEW INVENTORY}

**Note 2:** The Contractor is to determine and map the appropriate viewshed while considering overlapping areas and multiple viewpoints. The Contractor is required to assess and identify any overlapping viewshed between the project areas in the field, delineate the polygons or VSUs, and complete the VSU Classification Form for each polygon from the VSU Rating Point as defined in the VLI Standards.

**Note 3:** In addition to considering the viewshed overlap among the project areas identified in this contract, the Contractor may also be required to highlight on the check plots any other overlaps with existing VLI mapping previously done from other locations as shown on the District VLI Tiles and resolve the overlaps after review by the Ministry Representative. This requirement applies only if consolidation with Districts VLI Tiles is requested as part of the Services.

**Note 4:** The Contractor is required to carry out the VLI using travel methods which would be used by the average forest visitor or traveler so that similar viewing opportunities can be assessed as required in the VLI Standards. The use of a helicopter or float plane is not an acceptable substitute to actual field work on the ground or water, unless pre-approved by the Province under very special circumstances.

If a VLI project includes the mapping of a lake and/or river viewshed, the Contractor is required to go around the perimeter of the lake and up and/or down the river by boat to capture the entire visible landscape.

**Note 5:** The Contractor is required to complete the mapping and rating of the entire viewshed from the Location(s) identified in this Contract, excluding any viewshed within parks/protected areas, and any visible landforms located more than two (2) QUAD Map Sheets away from any of the viewpoints captured as part of the Contract. The Contractor is also required to map any portions of the viewshed that may fall outside the District VLI Tile area if within the specified range. (The Province will consolidate any data falling outside the district boundary at a later date).

**Note 6:** The Contractor is required to assess and select any viewpoints that may fall outside the Location(s) identified in this Contract if these viewpoints provide views into the Project Areas to be inventoried.

6. Another purpose of this contract is to prepare a VLI Report.

**Note:** Section 6.0 of the VLI Standards presents the minimum content requirements while **Attachment 4** provides a suggested report outline.



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

7. An additional purpose of this Contract is to complete a VLA Table for the project areas. This can take the form of a table summarizing key inventory fields with the addition of rVQCs and accompanying rationales.

**Note:** If a VLA Table is required as part of the Services, it may be submitted separate from the main VLI Report as it is not considered "inventory" data.

8. An additional purpose of this Contract is to consolidate the VLI digital data with the District-wide VLI Tile.

**Note:** If consolidation is required as part of the Services, the "POLY\_NO" must not be re-used for another polygon if an old polygon is deleted. If a polygon requires splitting, the "POLY\_NO" label point can be moved to one of the split polygons and a new "POLY\_NO" given to the other polygon. For new polygons, use the next available "POLY\_NO" (sequentially). Leave "POLY\_ID" blank or with the number that may already appear on file.

## SERVICES

The Contractor shall:

9. In completing the Services, complete the following activities: *(check all that apply)*

- ☒ Attend a pre-work conference prior to commencement of any work;
- ☐ Complete an approved public input process;
- ☒ Schedule a one day visit to the Location of the Services with the Ministry Representative to address calibration of landscape ratings and to identify or confirm, if required, major, minor and potential view points (this may be combined with the pre-work conference);
- ☐ Organize and attend a final meeting with the Province Representative for review of the final deliverables and to identify any further revisions or requirements prior to submission of the final invoice.

10. Carry out the following steps and specified tasks in accordance with Section 2.2.2 - Detailed Assessment, of the VLI Standards:

### Step 1 Pre-Fieldwork

### Step 2 Public Input

A Public Input Process that will include: *(check all that apply)*

{MINISTRY REPRESENTATIVE SHOULD SPECIFY HERE THE TASKS THEY EXPECT THE CONTRACTOR TO CARRY OUT AS PART OF THE PUBLIC INPUT PROCESS. AS A MINIMUM, IT HAS BEEN COMMON PRACTICE TO SOLICIT PUBLIC INPUT USING THE FIRST TWO METHODS BELOW.}

- ☐ Placing advertisements in local newspapers seeking public input on recreational and visual amenities, visual sensitivity, and level of use within the project area(s) (refer to VLI Procedures and Standards Manual (S.2.2.2, Step 5) for request format);
- ☐ Sending a letter directly to key stakeholders and various groups identified from a district contact list to be provided by the Ministry Representative;



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

☐ Meeting with specific groups. Specify: \_\_\_\_\_

**Note:** Depending on the number and type of input received from the written submissions and media advertising, one or more public meetings or open houses may also be required so the contractor may need to modify the work plan and budget, subject to ministry approval.

## Step 3 Inventory Fieldwork

## Step 4 Post-Fieldwork

11. Capture VLI, Viewpoints/View Arrows, and Screening data to current Digital Standards.

12. Provide a VLA Table for the project areas. *(check the one that applies)*

- ☒ VLA Table required for this Contract (see **Attachment 3**).  
☐ VLA Table not required for this Contract.

13. Consolidate new VLI data file with existing data in the District VLI Tile. *(check the one that applies)*

- ☒ Digital consolidation required for this Contract.  
☐ Digital consolidation not required for this Contract.

**Note:** If digital consolidation with the District VLI Tile is not required for this Contract, the Province will provide a Shape file with standard attribute fields ready for digitizing and populating of attributes.

14. Provide a VLI Report. *(check the one that applies)*

- ☒ VLI Report required for this Contract (see **Attachment 4**).  
☐ VLI Report not required for this Contract.

15. Submit in accordance with an approved Work Progress Plan, the VLI Standards, the Digital Standards; and the VLA Table Directions (if required):

a) the following **draft** deliverables for review by the Ministry Representative: *(check all that apply)*

- ☒ One (1) set of all the VLI Quad Map Sheets (1:50,000 scale) showing the new VLI polygons, labels, viewpoint symbols and numbers, view arrows, screening, all base information (see **Attachment 5**), and legend to Digital Standards (see **Attachment 6** for sample map and legend) no later than **Oct.15, 2012**. The check plots can be submitted either in hardcopy format or in plot-ready (pdf) digital format;
- ☒ One (1) updated District VLI Tile (ArcView Shape format) cleaned to Digital Standards no later than **Oct.15, 2012**;
- ☐ One (1) completed attribute database (spreadsheet in xls) hardcopy and digital showing the updated records no later than **{SPECIFY TARGET DATE}**;
- ☒ One (1) set of VLA Table(s) **hardcopy and digital (xls)** for each of the project area(s) no later than **Oct.15, 2012**; (see **Attachment 3** and **Note 1** below)
- ☒ One (1) draft VLI Report **hardcopy and digital (doc)**, no later than **Oct.15, 2012**; (see Sect. 6 VLI Standards and **Attachment 4**)
- ☐ One (1) digital set of all the individual photographs filed in folders by project name and photo point numbers no later than **{SPECIFY TARGET DATE}**; (see **Notes 2 and 3**)



# SCHEDULE A SERVICES

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below)

- ☐ One (1) digital set of all the panoramas created from the individual photographs using a panoramic photo stitching software filed in folders by project name and photo point numbers no later than **{SPECIFY TARGET DATE}**;
- ☐ One (1) printed/plotted set of all the photographs taken from each photo point spliced as panoramas and labeled with the following information no later than **{SPECIFY TARGET DATE}**:
  - District and Project Area names;
  - Photo point number;
  - General geographic location;
  - Photographs capture date;
  - View Direction (compass bearing or general direction e.g. "Northwest View")

- ☒ Other: One spreadsheet of viewpoint data (xls), including coordinates, location description, photo panorama references, no later than Oct.15, 2012.

**Note 1:** If a VLA Table and VLI Report are required, the table must be submitted separate from the main Report as it is not considered "inventory" data.

**Note 2:** Photographs of the landscape must be taken at times when lighting is at its optimum and landforms are clearly visible. Some shade effect is permitted provided it accentuates landform line and shape and does not obscure significant amount of landscape details. Photographs should cover the full view from a given photopoint and taken from left to right with about 30% overlap to allow for proper splicing when creating the panoramas. Truncated panoramas, incomplete labeling, and/or photographs with landscape details obscured by poor lighting or printing quality, clouds or fog will be returned to the Contractor unchecked and the contract quality control put on hold until adequate photographs are submitted for Ministry review.

**Note 3:** Photography Data Forms (see VLI Standards, Appendix 3) are only required if photographs are taken from viewpoints other than VSU Rating Points. Photographic data from VSU Rating Points are to be entered directly on the back of the VSU Classification Forms as indicated.

## PROVINCE

16. The Province shall return the draft deliverables to the Contractor with revision instructions **within 30 days** of the date received from the Contractor.

**Important Note:** Depending on the complexity/number of changes for a given quad map sheet and/or the accuracy and completeness of the field and/or digital data captured by the Contractor, the Province may need to review more than one check plots for a given map sheet before declaring it up to standards.

# SCHEDULE A

## SERVICES

for Visual Landscape Inventory Contract

### FINAL DELIVERABLES

17. After the Province has declared the draft deliverables up to standards, the Contractor shall deliver the following items **no later than Dec. 14, 2013**.

a) All original documents, maps and digital media provided by the Province at the commencement of the Services;

b) Digital files: *(check all that apply)*:

<input checked="" type="checkbox"/>	Updated District VLI Tiles in ArcView Shape format cleaned to Digital Standards, one Shape file for each of the four data types: VLI Polygons, Viewpoints, View Arrows, and Screenings.
<input checked="" type="checkbox"/>	VLI attributes exported from the Shape file to an Excel format file and formatted as per the sample spreadsheet provided by the Province.
<input checked="" type="checkbox"/>	VLI Report (MS Word file) with the content and format as set out in the VLI Standards and <b>Attachment 4</b> .
<input checked="" type="checkbox"/>	All the individual photographs taken from the photo points on DVD or CD disc filed in folders by project name and photo point numbers (TIFF format preferred; JPEG format acceptable but with as little compression as possible and with Fine or Super Fine resolution settings).
<input checked="" type="checkbox"/>	All the panoramas created from the individual photographs on DVD or CD disc using a panoramic photo stitching software filed in folders by project name and photo point numbers.
<input checked="" type="checkbox"/>	VLA Table (xls format), grouped by Project phase, as set out in <b>Attachment 3</b> .
<input checked="" type="checkbox"/>	Other: Spreadsheet (xls) of viewpoint data, including coordinates, location description, photo panorama references.

c) Hardcopy media: *(check all that apply)*:

<input type="checkbox"/>	{SPECIFY NUMBER (e.g. One (1))} set of all the VLI Map Sheets identified in Part 1 at a scale of 1:50,000 showing the new VLI polygons, labels, viewpoint symbols, type, and numbers, view arrows and types, screening symbols, all base information and legend to Digital Standards (see <b>Attachments 5 and 6</b> ).
<input type="checkbox"/>	{SPECIFY NUMBER (e.g. One (1))} copies of the VLI attributes exported from the Shape file to an Excel format spreadsheet and formatted as per the sample spreadsheet provided by the Province.
<input checked="" type="checkbox"/>	Two copies of the VLI Report with the content and format as set out in the VLI Standards and <b>Attachment 4</b> .
<input checked="" type="checkbox"/>	Two copies of the VLA Table completed for each project area as set out in <b>Attachment 3</b> (to submit on its own, separate from the VLI Report)
<input type="checkbox"/>	{SPECIFY NUMBER (e.g. One (1))} high quality printed/plotted set of all the individual photographs taken from the photo points labeled with the following information: <ul style="list-style-type: none"> <li>➤ District and Project Area names</li> <li>➤ Photo point number</li> </ul>





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<input type="checkbox"/>	<ul style="list-style-type: none"><li>➤ General geographic location</li><li>➤ Photographs capture date</li><li>➤ View Direction (compass bearing or general view direction e.g. "Northwest View")</li></ul>
<input type="checkbox"/>	<p>{SPECIFY NUMBER (e.g. One (1)) high quality plotted set of all the panoramas created from the individual photographs using a panoramic photo stitching software labeled with the following information:</p> <ul style="list-style-type: none"><li>➤ District and Project Area names</li><li>➤ Photo point number</li><li>➤ General geographic location</li><li>➤ Photographs capture date</li><li>➤ Individual photo number (file names) of all the photographs making up the panorama</li><li>➤ View Direction (extent of the panoramic view as compass bearings or general view direction e.g. "Northwest View")</li></ul>
<input checked="" type="checkbox"/>	<p>Other: Two copies of the viewpoint spreadsheet in xls format.</p>

18. The submission dates stipulated in sections 15 and 17 may be adjusted at the discretion of the Province where circumstances beyond the control of the parties have resulted in delays, e.g. bad weather. The Contractor must contact the Province ahead of time if any of the submission dates cannot be met.

## SUPPLIES AND EQUIPMENT

19. The Province will provide: (check all that apply)

- ☒ One (1) digital copy of each VLI polygons, Viewpoints, View Arrows, and Screening files (in ArcView Shape format cut to the forest district boundary) to use as the base for the digital data capture.
- ☐ Access to the BC Geographic Warehouse (LRDW) ([Land and Resource Data Warehouse](http://www.bceid.ca)). The Contractor shall enter into a data sharing agreement with the Province by registering for a business BCeID (<https://www.bceid.ca>) to access the data from the LRDW needed to produce the VLI Base Maps as described in **Attachment 5**.
- ☐ Local office contact lists to use for the public/stakeholders letter solicitations and names of the newspapers to use for advertisements.
- ☒ One (1) digital template of the VLI Classification Form and VLA Table (doc).
- ☒ One (1) copy of VLI attributes spreadsheet (MS Excel format file or as requested by contractor) following completion of web-based data entry.
- ☐ Other: {SPECIFY ANY OTHER SUPPLIES/EQUIPMENT PROVIDED BY PROVINCE, OR DELETE THIS ROW}.

20. The Contractor will supply all other materials, equipment and transportation required to complete the Services.

## KEY PERSONNEL

21. The Services shall be performed by the following "Key Personnel":

a)



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

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b)

c)

## **SUBCONTRACTORS**

22. Only the following are approved by the Province to be Subcontractors under this Agreement:

a) {SPECIFY NAME or type "NOT APPLICABLE"}

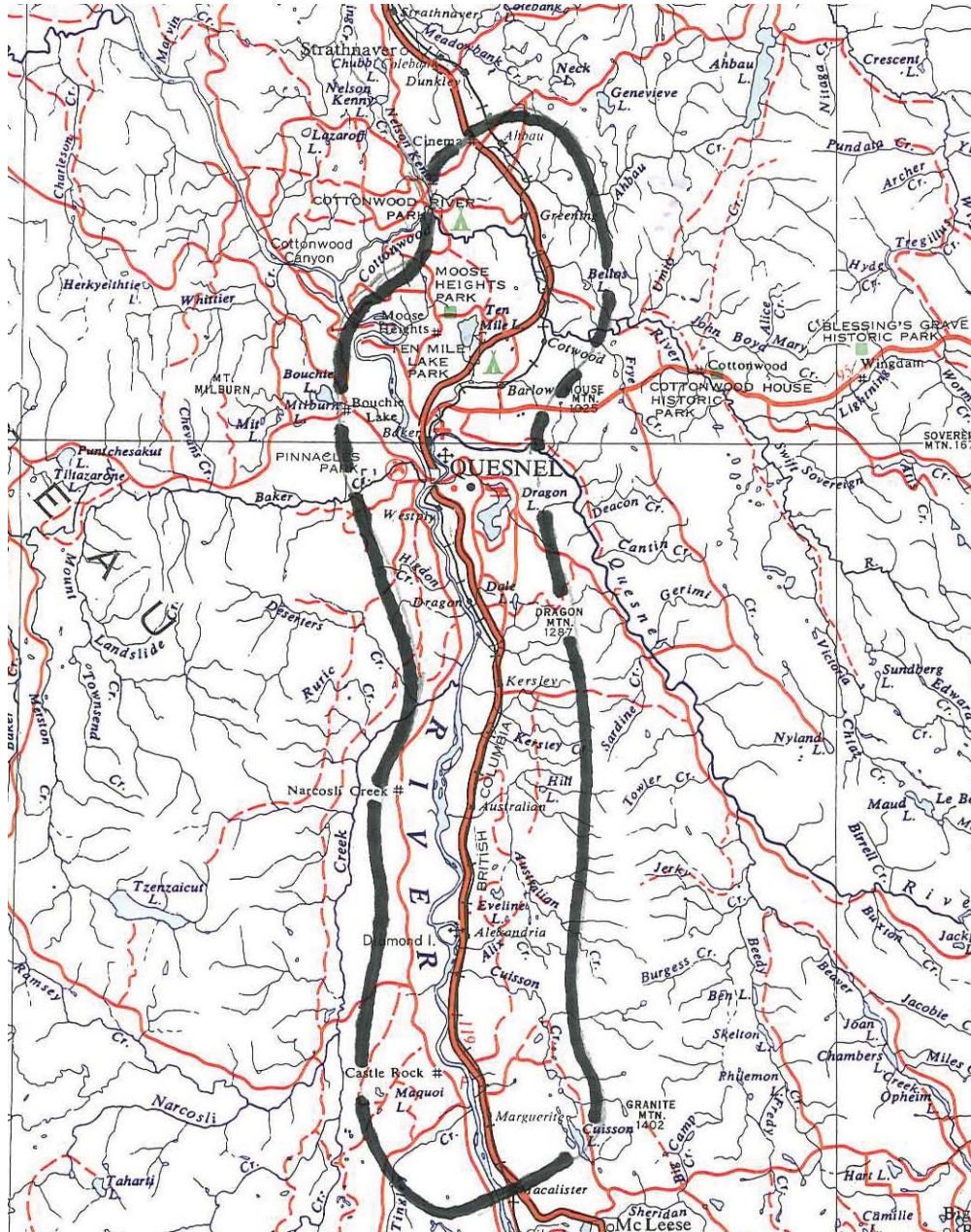
# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

## ATTACHMENT 1

### PROJECT AREA(S) LOCATION MAP

Scale approx. 1:600,000



Note: The boundaries delineated on the map show the general location of the project areas, however the contractor is required to carry out VLI work beyond these general boundaries to encompass all areas that are visible from highways and communities within the project area.

# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

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## ATTACHMENT 2

### VISUAL LANDSCAPE INVENTORY STANDARDS – ERRATA SHEET

Minor edits made in 1999 to the Visual Landscape Inventory Procedures and Standards Manual released in 1997. These corrections were included in the VLI Training documents used after the release of the main manual in 1997.

- Pg 30 1<sup>st</sup> paragraph under Section 12: last sentence now reads:  
"The better the design, the greater the influence"  
(instead of "The poorer the design the greater the influence").
- Pg 30 Section 12: switch text between columns 1 (High) and 3 (Low) (to reflect that "High" means good or better design and that "Low" means square or angular in shape).
- Pg 31 Section 13: switch text between columns 1 (High) and 3 (Low) (to reflect that High means site disturbances are subordinate and Low means site disturbances dominate the unit).
- Pg 36 Section 19: remove option C from table. No longer a valid descriptor.
- Pg 40 Section 23: add "k. Ridgelines" as type of edge.
- Pg 42 Section 26: change the rating value for Low from 2 to 1 in the table header.
- Pg 53 Section 5.8 items 4 in the VSC table: replace the word "risk" with "low probability".
- Pg 53 Section 5.8 items 5 in the VSC table: replace the words "small risk" with "very low probability".



## **SCHEDULE A**

### **SERVICES**

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## ATTACHMENT 3

## VISUAL LANDSCAPE ANALYSIS TABLE

PRELIMINARY VISUAL LANDSCAPE ANALYSIS AND RECOMMENDATION OF VISUAL QUALITY CLASSES												
Forest District: → _____				VLI Project Name: → _____								
VLI Completion/Update Date: → _____				VLI Completed by: → _____								
Analysis Report Completion Date: → _____												
Analysis Report Completed by: → _____				Affiliation: → _____								

#	Inventory Data								Gross Land Base Area (ha)	Analysis		Comments/Rationale
	1:20,000-BCGS MAP #	POLY NO.	EVC	VAC	BR	VC	VR	VSC		Default RVQC	Final RVQC	

VLI (Visual Landscape Inventory)  
VSU (Visual Sensitivity Unit)  
EVC (Existing Visual Condition) → P=Preserved → R=Retained → PR=Partially Retained → M=Modified → MM=Maximally Modified → EM=Excessively Modified  
VAC (Visual Absorption Capacity) → H=High → M=Moderate → L=Low  
BR (Biophysical Rating) → H=High → M=Moderate → L=Low  
VC (Viewing Condition) → H=High → M=Moderate → L=Low  
VR (Viewer Rating) → H=High → M=Moderate → L=Low  
VSC (Visual Sensitivity Class) → 1=Very High Sensitivity → 2=High Sensitivity → 3=Moderate Sensitivity → 4=Low Sensitivity → 5=Very Low Sensitivity  
RVQC (Recommended Visual Quality Class) → P=Preservation → R=Retention → PR=Partial Retention → M=Modification → MM=Maximum Modification

## DIRECTIONS FOR THE COMPLETION OF VLA TABLES

1. A Recommended Visual Quality Class (RVQC) should be understood to be a specialist's recommendation that describes the level of alteration that would be appropriate for a visual sensitivity unit based on the inventory data.

The RVQC does not comprehensively consider all socio-economic factors, is not determined through a planning or decision making process and is not necessarily endorsed by government or other stakeholders. RVQCs are not established Visual Quality Objectives under the Forest and Range Practices Act but are considered along with social, economic, biophysical and other resource value objectives when establishing VQOs.



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

2. RVQC's should be determined and recorded as follows:

- determine a default RVQC based on the VSC by using the following table:

	Visual Sensitivity Class (VSC)				
	1	2	3	4	5
RVQC	P-R	R-PR	PR-M	PR-M-MM	M-MM

- determine a final RVQC, based on professional judgement and guided by long-standing but largely undocumented experiences and methods.
  - record the default and final RVQC and where the default and final RVQCs are different, record the rationale for this difference on the attached table.
3. RVQC's may be derived at the time a visual landscape inventory (VLI) is completed if requested but must be kept separate from the VLI Report since RVQC ratings are not considered "inventory" data per se.
4. RVQC's are stored digitally as an administrative attribute within the corporate recreation inventory data base.

# **SCHEDULE A**

## **SERVICES**

for Visual Landscape Inventory Contract

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### **ATTACHMENT 4**

#### **SAMPLE VISUAL LANDSCAPE INVENTORY REPORT OUTLINE**

- 1.0 INTRODUCTION/BACKGROUND**
- 2.0 PROJECT AREA DESCRIPTION**
- 3.0 PROJECT PLANNING AND METHODOLOGY**
  - 3.1 VLI Standards and Procedures
  - 3.2 Support Materials
  - 3.3 Deliverables
  - 3.4 Responsibilities and Ministry Liaison
- 4.0 VISUAL LANDSCAPE INVENTORY**
  - 4.1 Identification of Recreation and Visual Resource Values (Public/Stakeholders Solicitation)
  - 4.2 Summary of Written and Verbal Input Received
  - 4.3 Identification of Viewpoints
  - 4.4 Field Mapping of the Visible Landscape, Viewpoint, View Arrows, and Screening
  - 4.5 Summary of Visual Sensitivity Unit Classifications
    - 4.5.1 Existing Visual Conditions (EVC)
    - 4.5.2 Visual Absorption Capability (VAC)
    - 4.5.3 Biophysical Rating (BR)
    - 4.5.4 Viewing Condition (VC)
    - 4.5.5 Viewer Rating (VR)
    - 4.5.6 Visual Sensitivity Class (VSC)
  - 4.6 Digital Data Capture
- 5.0 RECOMMENDATIONS AND CONCLUSIONS**
- 6.0 PROJECT SCHEDULE BY VLI STEPS** (see Section 10)
- 7.0 PROJECT PERSONNEL**

#### **LIST OF APPENDICES**

- Appendix 1 Key Map of the Project Area
- Appendix 2 Copy of Media Advertisement & Letter to Stakeholders
- Appendix 3 List of Public/Agencies/Stakeholders Contacted
- Appendix 4 Copy of All Written Responses Received
- Appendix 5 Copy of all VSU Classification Forms
- Appendix 6 Catalogued Photographs of Visual Sensitivity Units
- Appendix 7 Copy of all Photography Data Forms
- Appendix 8 1:50,000 Scale Hardcopy Maps



# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

## ATTACHMENT 5

### BASE DATA REQUIRED ON HARDCOPY CHECK PLOTS (1:50,000 SCALE)

### AND VLI LABEL FORMAT

Base Data (BCALBERS, NAD83)	Corresponding Data Names on LRDW
TRIM Water Features	WHSE_BASEMAPPING.TRIM_WATER_LINES WHSE_BASEMAPPING.TRIM_EBM_WATERCOURSES WHSE_BASEMAPPING.TRIM_EBM_WATERBODIES WHSE_BASEMAPPING.TRIM_EBM_OCEAN
Existing Openings	WHSE_FOREST_TENURE.FTEN_CUT_BLOCK_POLYGONS WHSE_FOREST_VEGETATION.RSLT_OPENING_POLY WHSE_FOREST_VEGETATION.RSLT_OPENING_SVW
TRIM Paved and Gravel Roads, Trails, Transmission Lines, Railways, Pipelines  <b>Note:</b> The various features of the TRANSPORTATION_LINES layer can be symbolized individually by clicking on the Layer Properties and assigning different symbols to individual Feature Codes. The Feature Codes Definitions can be found at: <a href="#">Geographic Feature Catalogue</a>	WHSE_BASEMAPPING.TRIM_TRANSPORTATION_LINES WHSE_FOREST_TENURE.FTEN_ROAD_LINES
TRIM Annotations	WHSE_BASEMAPPING.TRIM_TEXT_ANNO
TRIM Contour Lines and Elevation Labels (thinned out)	WHSE_BASEMAPPING.TRIM_CONTOUR_LINES
TRIM Wooded Areas	WHSE_BASEMAPPING.TRIM_LAND_COVER_LINES
TRIM 1:20,000 BCGS Grid (with mapsheet number)	WHSE_BASEMAPPING.BCGS_20K_GRID
TRIM 1:50,000 grid	WHSE_BASEMAPPING.DBM_MOF_50K_GRID
TRIM Icefields, Glaciers	WHSE_BASEMAPPING.TRIM_EBM_ICEMASSES
Forest District and TFL Boundaries*	WHSE_ADMIN_BOUNDARIES.FADM_DISTRICT WHSE_ADMIN_BOUNDARIES.FADM_TFL
Private Land Ownership	WHSE_CADASTRE.ICI_PARCEL_FABRIC_PUBLIC_VW WHSE_TANTALIS.TA_SURVEY_PARCEL_SHAPES
Protected Areas/Parks/Ecological Reserves and Name Labels	WHSE_TANTALIS.TA_PARK_ECORES_PA_SVW WHSE_ADMIN_BOUNDARIES.CLAB_NATIONAL_PARKS
LRDW - VLI Polygons (black outline; themed on <b>VSC_FINAL</b> ) and Black Polygon Labels (see label format below)	<b>UPDATE:</b> <a href="http://srmapps.gov.bc.ca/apps/rec/">http://srmapps.gov.bc.ca/apps/rec/</a> <b>LRDW VIEW ONLY:</b> WHSE_FOREST_VEGETATION.REC_VISUAL_LANDSCAPE_INVENTORY
ADJACENT DISTRICT – VLI Polygons;	<b>LRDW VIEW ONLY:</b>





# SCHEDULE A SERVICES

for Visual Landscape Inventory Contract

Base Data (BCALBERS, NAD83)	Corresponding Data Names on LRDW
(grey outline themed on <b>VSC final</b> ) and Grey Polygon Labels (see <b>Attachment 4</b> ).	WHSE_FOREST_VEGETATION.REC_VISUAL_LANDSCAPE_INVENTORY
LOCAL - VLI Polygons (purple outline; themed on <b>VSC final</b> ) and Purple Polygon Labels.	Local source (if any)
Viewpoints, Viewing Direction & Screening	<b>UPDATE:</b> <a href="http://srmapps.gov.bc.ca/apps/rec/">http://srmapps.gov.bc.ca/apps/rec/</a> plus local source <b>LRDW VIEW ONLY:</b> WHSE_FOREST_VEGETATION.REC_VIEWPOINTS_POINT WHSE_FOREST_VEGETATION.REC_SCREENINGS_POLY WHSE_FOREST_VEGETATION.REC_VIEWING_DIRECTION_LIN

VLI Polygon Label Format	Corresponding Fied Names in VLI Shape File
POLY_NO EVC VAC BR VC VR VSC	<ul style="list-style-type: none"> <li>POLY_NO (Polygon Number)</li> <li>EVC_FINAL (Existing Visual Condition)</li> <li>VAC_FINAL (Visual Absorption Capability)</li> <li>BR_FINAL (Biophysical Rating)</li> <li>VC_FINAL (Viewing Condition)</li> <li>VR_FINAL (Viewer Rating)</li> <li>VSC_FINAL (Visual Sensitivity Class)</li> </ul>



# SCHEDULE A SERVICES

## ATTACHMENT 6 SAMPLE CHECKPLOT (1:50,000 SCALE)

for Visual Landscape Inventory Contract

