

FLOOD PROTECTION INSPECTION REPORT

Dike Name (From database) Fairmont Hot Springs Resort GPS No. (database) 52
 Water Courses Fairmont Cr / Cold Spring Cr Dike Section Log Crib north
 Date Inspected May 16, 2007 Signed [Signature]

For sections 1-4, please check the applicable box. If you check the Yes box, please explain in detail below or on attachments. Please also refer to "Flood Protection Works Inspection Guide" from March 2000 for a detailed guide to dike inspection and reporting, available at: http://www.env.gov.bc.ca/wsd/public_safety/flood/pdfs_word/fld_prot_insp_gd.pdf

1. Is there any obstruction, deterioration or damage to dike access? (access routes, ramps, and gates) YES NO N/A

	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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2. Is there any deterioration or damage to the following? YES NO N/A

	YES	NO	
• Dike Crest and slopes (nuts, loss of surfacing material, obstructions, slumping, cracking)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Bank Protection (loss of rock, settlement, slumping)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Flood Boxes/Pump stations (inlet/outlet channels, gate operation, trash racks, debris, erosion, corrosion, structure, mechanical components) or damage to dike access?(access routes, ramps, and gates)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3. Were any of the following serious problems observed? (if yes, please attach photo or sketch) YES NO N/A

	YES	NO	
• Seepage (and/or evidence of piping)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Erosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Slumping, cracking, sink holes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Animal Damage (beavers, animal burrows, cattle, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Unauthorized construction (excavations, utilities, structures)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Channel infilling and aggregation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Significant flood levels (within free board) within the last 12 months	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

FLOOD PROTECTION INSPECTION REPORT

4. Vegetation Management

	YES	NO	N/A
• Hampers or prevents access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Reduces visibility to each toe?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Trees in or near dike (within 2m from toe) with potential for uprooting?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Multi-year vegetation management plan in place?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

5. Describe maintenance work (including vegetation management) completed in the past 12 months:

N/A

6. Describe the work required in the next 12 months and the estimated schedule for completion:

Item	Proposed Completion Date
N/A	

7. Please list inspection report attachments (photos, sketches etc.)

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Notes on completing this Flood Protection Inspection Report form:

1. Please use a separate inspection form for each dike, or section of dike.
2. When completing the inspection report, please use the dike name and GPS Number on the provincial database (on web page or as shown on green sheet enclosed with mail out). If you believe there are any errors or omissions in the database, please submit them with the inspection report.
3. If you use more than one form for each dike, please indicate the dike section using chainage and/or major landmarks (roads, bridges etc). **Please do not use local property names in the inspection report.**

East Kootenay Regional District

Water Course	Fairmont Creek	Structure Type	Dike
Water Course 2	Cold Spring Creek	Ancillary Works	Log crib wall
GPS Number	52	Structure Length	85 m
Dike Name	Fairmont Hotsprings Resort	NAD 83 Map Number	82J031/032
Region	Kootenay	Floodplain Maps	N/A
Owner/Administrator	East Kootenay Regional District	UTM Northing	5 575 570
Address	19 - 24th Ave S	UTM Easting	11U 581 742
City	Cranbrook	Service Area	
Province	BC	Land Use	
Postal Code	V1C 3H8	Number of Buildings Protected	
Contact Person	Kevin Paterson	Infrastructure Protected	
Telephone	250-489-2791	Geographic Feature	Riverine
Fax	250-489-1287	Type of Flooding	Spring Freshet
		Local Authority under EPA	East Kootenay Regional District
		Regulated under DMA	Yes

Notes

**Please mail or fax this form to the Inspector of Dikes by
December 31, 2006**

CONFIRMATION OF ANNUAL DIKE INSPECTION 2006

TO:

FROM:

Office of Inspector of Dikes
Lower Mainland Regional Office
Water Stewardship Division
Ministry of Environment
10470 - 152nd St
Surrey, BC V3R 0Y3
FAX: (604) 584-9751

Stephen McInnis
East Kootenay Regional District
19 - 24th Ave S
Cranbrook BC V1C 3H8
250-489-0300
250-489-1287

1. Is your Annual (2006) Dike Inspection Complete? YES NO
If NO, please indicate expected completion date: _____
If YES, please provide date of inspection: YY _____ MM _____ DD _____
and attach the complete inspection report.

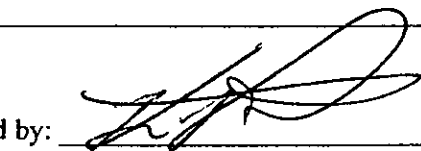
2. According to the Provincial Flood Protection Works Database, you are the diking authority contact person. Is all the information on the above label correct? YES NO

If NO, please provide updated details below - (this information assists provincial agencies in case of flood emergencies):

Kevin Paterson - Recreation & Control Services Supervisor
Regional District of East Kootenay
19-24th Ave. S. Cranbrook B.C V1C 3H8 250-489-2791 ph
250-489-1287 fax

3. If you have any additional comments or suggestions about your diking authority and/or structure, please indicate them below:

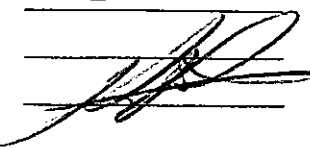
Submitted by:


Kevin Paterson

Date:

Jan 02 / 2007

FLOOD PROTECTION INSPECTION REPORT

Dike Name (From database) Fairmont Hot Springs Resort GPS No. (database) 52
 Water Courses Fairmont Creek Dike Section _____
 Date Inspected May 08/2006 Signed 

For sections 1-4, please check the applicable box. If you check the Yes box, please explain in detail below or on attachments. Please also refer to "Flood Protection Works Inspection Guide" from March 2000 for a detailed guide to dike inspection and reporting, available at: http://www.env.gov.bc.ca/wsd/public_safety/flood/pdfs_word/fld_prot_insp_qd.pdf

1. Is there any obstruction, deterioration or damage to dike access? (access routes, ramps, and gates) YES NO N/A

	YES	NO	N/A
		✓	

2. Is there any deterioration or damage to the following? YES NO N/A

	YES	NO	N/A
• Dike Crest and slopes (ruts, loss of surfacing material, obstructions, slumping, cracking)		✓	
• Bank Protection (loss of rock, settlement, slumping)		✓	
• Flood Boxes/Pump stations (inlet/outlet channels, gate operation, trash racks, debris, erosion, corrosion, structure, mechanical components) or damage to dike access?(access routes, ramps, and gates)		✓	

3. Were any of the following serious problems observed? (if yes, please attach photo or sketch) YES NO N/A

	YES	NO	N/A
• Seepage (and/or evidence of piping)		✓	
• Erosion		✓	
• Slumping, cracking, sink holes		✓	
• Animal Damage (beavers, animal burrows, cattle, etc.)		✓	
• Unauthorized construction (excavations, utilities, structures)		✓	
• Channel infilling and aggregation		✓	
• Significant flood levels (within free board) within the last 12 months		✓	

FLOOD PROTECTION INSPECTION REPORT

4. Vegetation Management	YES	NO	N/A
• Hampers or prevents access?		✓	
• Reduces visibility to each toe?		✓	
• Trees in or near dike (within 2m from toe) with potential for uprooting?		✓	
• Multi-year vegetation management plan in place?		✓	

5. Describe maintenance work (including vegetation management) completed in the past 12 months: <div style="text-align: right; margin-right: 50px;"><i>N/A.</i></div>

6. Describe the work required in the next 12 months and the estimated schedule for completion:	
Item	Proposed Completion Date
<i>May conduct removal of small trees + brush growing in channel proper.</i>	<i>Oct 2007.</i>

7. Please list inspection report attachments (photos, sketches etc.)

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3. If you use more than one form for each dike, please indicate the dike section using chainage and/or major landmarks (roads, bridges etc). **Please do not use local property names in the inspection report.**

East Kootenay Regional District

Water Course	Fairmont Creek	Structure Type	Dike
Water Course 2	Gold Spring Creek	Ancillary Works	Log crib wall
GPS Number	52	Structure Length	85 m
Dike Name	Fairmont Hotsprings Resort	NAD 83 Map Number	82J031/032
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Address	19 - 24 th Ave S	UTM Easting	11U 581 742
City	Cranbrook	Service Area	
Province	BC	Land Use	
Postal Code	V1C 3H8	Number of Buildings	
Contact Person	Stephen McInnis	Infrastructure Protected	
Telephone	250-489-0300	Geographic Feature	Riverine
Fax	250-489-1287	Type of Flooding	Spring Freshet
		Local Authority under EPA	East Kootenay Regional District
		Regulated under DMA	Yes

Notes

OCT 06 2006

Regional District of
East Kootenay

September 29, 2006

File: 35050-20/Mailout

BC Diking Authorities

Re: Requirement for Submission of Annual Dike Inspection Reports

I am writing to remind you of the requirement for submission of your 2006 Dike Inspection Report. If you have already submitted this report, please accept my gratitude. According to our most recent information, the addressee on the enclosed "Confirmation of Annual Dike Inspection 2006" form is the diking authority contact person. If this is incorrect, please ensure that this letter is forwarded to the appropriate person in your organization.

1. Requirements for Dike Management and Annual Inspections

Diking authorities are responsible for all dike management activities including inspections, performance monitoring, operation, repairs, maintenance, replacement, contingency emergency planning, and emergency response. Diking authorities must undertake inspections and necessary maintenance well in advance of potential high water periods. Knowledge of the status of maintenance of flood protection works is an integral part of flood preparedness planning at both the local and provincial levels.

Diking authorities must complete an annual inspection of each dike and submit the inspection report(s) to the Inspector of Dikes. **Please fill out and submit the "Confirmation of Annual Dike Inspection 2006" form (enclosed) by mail or fax by December 31, 2006. Enclose a copy of your inspection report.** Please also update any contact information details, if applicable.

A comprehensive annual dike inspection report is a primary tool to manage and monitor dike safety. In an effort to improve inspection records, the enclosed Inspection Report form includes:

- use of consistent dike names (please use the "official" dike names and "GPS Numbers" as shown on the enclosed provincial database printouts – green sheets)
- a summary of maintenance work completed in the past 12 months
- a summary of maintenance work proposed for the next 12 months
- attachments such as photos and sketches of critical repair sites

2. Dike Maintenance Act Approvals for Changes to Dikes

To maintain the safety and integrity of dikes and to avoid detrimental effects on other parties and river processes, Section 2(4) of the DMA provides that a person or a diking authority must not make changes to a dike, or to the area adjacent to a dike without the prior written approval of the Inspector of Dikes (or a Deputy Inspector) where these changes include:

- changes or alterations to the cross section or crest elevation of a dike;
- installation of culverts, pipes, flood-boxes, utility lines, pump stations, or any structure through, on or over a dike;
- construction of any works on or over a dike or dike right of way, including structures, excavations and placement of fill or other materials;
- alteration of the foreshore or stream channel where the work could impact the integrity of a dike such as dredging, construction of erosion protection and other in-stream works; and
- construction of a new dike.

Routine maintenance of a dike by a diking authority does not require an Approval but major repairs (i.e. flood box replacement) would require an Approval. When diking authorities become aware that third parties are planning construction that could impact a dike, the diking authority should encourage the submission of an application for DMA Approval to the appropriate Deputy Inspectors of Dikes Offices with provision of a copy to the diking authority. General information and approval requirements, including a copy of an application form, are available on the ministry web page (see address below).

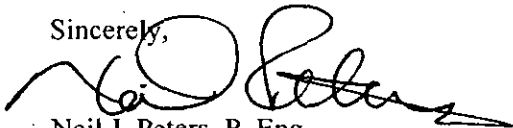
3. Other Dike Safety Information

Several dike safety publications, including the “Dike Design and Construction Guide – Best Management Practices for British Columbia 2003” are available online along with other information through the Water Stewardship Division Dike Safety home page:

http://www.env.gov.bc.ca/wsd/public_safety/flood/structural.html

Your regional Deputy Inspectors of Dikes (see attached contact list) are available for information and advice on dike safety and Approvals under the *Dike Maintenance Act* for new dikes, or changes to existing dikes.

Sincerely,



Neil J. Peters, P. Eng.
Inspector of Dikes

List of Enclosures

1. Confirmation of Annual Dike Inspection 2006 (form)
2. Flood Protection Inspection Report Form
3. Contact List: Inspector and Deputy Inspectors of Dikes
4. Provincial Database Print Outs (green sheets) - provides dike names, GPS No.s and other info.

cc: Deputy Inspectors of Dikes, Ministry of Environment
Brian Symonds, Director, Regional Operations, Water Stewardship Division
Glen Davidson, Director, Management and Standards, Water Stewardship Division

FLOOD HAZARD MANAGEMENT CONTACT LIST

Inspector and Deputy Inspectors of Dikes

Office	Name	Address	Phone
Surrey	Neil Peters Inspector of Dikes	10470 - 152 Street Surrey BC V3R 0Y3	(604) 582-5301
Surrey	Ron Henry River Engineering Specialist Deputy Inspector of Dikes	#10470 - 152 Street Surrey BC V3R 0Y3	(604) 582-5371
Surrey	Mike Bristol Deputy Inspector of Dikes	#10470 - 152 Street Surrey BC V3R 0Y3	(604) 582-5343
Surrey	John Pattle Deputy Inspector of Dikes	#10470 - 152 Street Surrey BC V3R 0Y3	(604) 582-5208
Kamloops	Craig Beeson Deputy Inspector of Dikes	1259 Dalhousie Drive Kamloops BC V2C 5Z5	(250) 371-6298
Kamloops	Ted Fuller Deputy Inspector of Dikes	1259 Dalhousie Drive Kamloops BC V2C 5Z5	(250) 371-6271
Nelson	Dwain Boyer Deputy Inspector of Dikes	#401 - 333 Victoria Street Nelson BC V1L 4K3	(250) 354-6388
Penticton	Ray Jubb Deputy Inspector of Dikes	102 Industrial Way Penticton, BC V2A 7C8	(250) 490-8236
Prince George	Lyle Larson Deputy Inspector of Dikes	3rd Floor 1011 4th Ave. Prince George BC V2L 3H9	(250) 565-6437
Surrey (Vancouver Island Dikes)	Joe MacInnes Deputy Inspector of Dikes	#10470 - 152 Street Surrey BC V3R 0Y3	(604) 582-5213