FOREST MANAGEMENT AND STUMP-TO-FOREST GATE CHAIN-OF-CUSTODY SURVEILLANCE EVALUATION REPORT

Irving Woodlands, LLC (IWLLC)

J.D. Irving Northern Maine Woodlands Forestry Division

Maine, USA

SCS-FM/COC-00121N

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Foreword

Cycle in annual surveillance audits			
🔲 1 st annual audit	X 2 nd annual audit	□ 3 rd annual audit	4 th annual audit
Name of Forest Management Enterprise (FME) and abbreviation used in this report:			
Irving Woodlands, LLC (JDI, IW or FME)			

All certificates issued by SCS under the aegis of the Forest Stewardship Council (FSC) require annual audits to ascertain ongoing conformance with the requirements and standards of certification. A public summary of the initial evaluation is available on the FSC Certificate Database <u>http://info.fsc.org/</u>.

Pursuant to FSC and SCS guidelines, annual / surveillance audits are not intended to comprehensively examine the full scope of the certified forest operations, as the cost of a full-scope audit would be prohibitive and it is not mandated by FSC audit protocols. Rather, annual audits are comprised of three main components:

- A focused assessment of the status of any outstanding conditions or Corrective Action Requests (CARs; see discussion in section 4.0 for those CARs and their disposition as a result of this annual audit);
- Follow-up inquiry into any issues that may have arisen since the award of certification or prior to this audit; and
- As necessary given the breadth of coverage associated with the first two components, an additional focus on selected topics or issues, the selection of which is not known to the certificate holder prior to the audit.

Organization of the Report

This report of the results of our evaluation is divided into two sections. Section A provides the public summary and background information that is required by the Forest Stewardship Council. This section is made available to the general public and is intended to provide an overview of the evaluation process, the management programs and policies applied to the forest, and the results of the evaluation. Section A will be posted on the FSC Certificate Database (<u>http://info.fsc.org/</u>) no less than 90 days after completion of the on-site audit. Section B contains more detailed results and information for the use by the FME.

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SECTION A – PUBLIC SUMMARY

1. General Information

1.1 Annual Audit Team

Auditor Name:	Kyle Meister	Auditor role:	Lead Auditor
Qualifications:	Kyle Meister is a Senior Certification Forester with SCS Global Services. He has been		
	with SCS since 2008 and has conducted FSC FM	pre-assessment	s, evaluations, and
	surveillance audits in Brazil, Panama, Mexico, Co	sta Rica, Bolivia	a, Indonesia, India,
	Japan, New Zealand, Spain, and all major forest-producing regions of North America.		
	He has conducted COC assessments in multiple reg	ions of the USA	and Latin America.
	Mr. Meister has successfully completed CAR Le	ead Verifier, IS	O 9001:2008 Lead
	Auditor, and SA8000 Social Systems Introduction a	and Basic Audito	or Training Courses.
	He holds a B.S. in Natural Resource Ecology and N	-	
	from the University of Michigan; and a Master of	f Forestry from	the Yale School of
	Forestry and Environmental Studies.		
Auditor Name:	Michael Thompson	Auditor role:	Auditor
Qualifications:	Mr. Thompson is the President of Penobscot Env	rironmental Con	sulting, Inc., and a
	Certified Wildlife Biologist. He has worked as a sub	contractor to SC	CS for over 20 years,
	conducting certification evaluations to the Forest	Stewardship Co	ouncil's (FSC) forest
	management and chain-of-custody standards. N	•	
	audits to the Sustainable Forestry Initiative (SFI) f	orest managem	ent standards. He
	received his B.Sc. degree in wildlife from the Unive	•	•
	in wildlife from the University of Maine. He is cur	•	
	the University of Maine's School of Forest Resou		
	years of experience in ecology, wildlife manage	ement, wetland	science, and rare
	species conservation.		

1.2 Total Time Spent on Evaluation

D.	Total number of person days used in evaluation:	9
	including drafting of the certification audit report:	5
С.	Additional days spent on preparation, stakeholder consultation, and post-site follow-up,	3
Β.	Number of auditors participating in on-site evaluation:	2
Α.	Number of days spent on-site assessing the applicant:	3

1.3 Standards Employed

1.3.1. Applicable FSC-Accredited Standards

Title	Version	Date of Finalization
FSC-US Forest Management Standard 1-0 08 July 2010		08 July 2010
All standards employed are available on the websites of FSC International (<u>www.fsc.org</u>), the FSC-US		
(www.fscus.org) or the SCS Standards page (www.scsglobalservices.com/certification-standards-and-program-		
documents). Standards are also available, upon request, from SCS Global Services (<u>www.SCSglobalServices.com</u>).		

1.3.2. SCS Interim FSC Standards

Title	Version	Date of Finalization	
SCS COC indicators for FMEs 5-1 December 2012		December 2012	
This SCS Interim Standard was developed by modifying SCS' Generic Interim Standard to reflect forest			
management in the region and by incorporating relevant components of the Draft Regional / National Standard			
and comments from stakeholders. More than one month prior to the start of the field evaluation, the SCS Draft			
Interim Standard for the country / region was sent out for comment to stakeholders identified by FSC			
International, SCS, the forest managers under evaluation, and the National Initiative. A copy of the standard is			
available at <u>www.scsglobalservices.com/certification-standards-and-program-documents</u> or upon request from			
SCS Global Services (<u>www.SCSglobalServices.com</u>).			

2 Annual Audit Dates and Activities

2.1 Annual Audit Itinerary and Activities

18 October 2016		
FMU/Location/ sites	Activities/ notes	
visited		
FME office, Fort	Opening Meeting: Introductions, client update (cut-to-length performance, use	
Kent, Maine	of new inventory techniques, relationship to mill in Ashland, ME and current	
	challenges, spruce budworm outbreak, etc.), review audit scope, audit plan,	
	intro/update to FSC and SCS standards and protocols, review of open CARs/OBS,	
	final site selection	
Fort Kent/	1. Block 6017: multi-entry/ single-tree selection harvest of northern hardwoods	
Northwoods Region	with riparian area and buffer. Discussion on riparian management zone	
	(RMZ) widths and management restrictions.	
	2. Block 6017: clearcut of intolerant hardwoods and beech affected by beech	
	bark disease (BBD). Will be replanted with spruce-fir. Discussion on even-	
	aged management retention policies (1/2 acre/ 25 acres) and operations.	
	3. Block 6017: Northern red oak (<i>Quercus rubra</i>) island for late successional	
	retention and due to species being at edge of its natural range.	
	4. Block MH002: site being evaluated for potential old growth/ late	
	successional designation. Discussion with foresters and botanist on	
	classification process, data sources, and stakeholder consultation. Site	
	identified by harvest supervisor that initiated discussions with other team members.	
	5. Block 6017: combination multi-entry/ single-tree selection and seed-tree	
	harvest of gradient of northern to intolerant hardwoods with high beech	
	component. Objective to regenerate northern hardwoods except for beech	
	and control established beech due to BBD. Use of feller-buncher to knock	
	beech back and allow other species to reach the overstory.	
	6. Block 6017: spruce site planted in 1994, with multiple herbicide treatments	
	conducted in the past. In 2015 it was pre-commercially thinned. Discussion	
	on changes to replanting and retention policies since 1994.	
	7. Block 6018: observation of example of brushing technique in RMZ of a	
	clearcut. Brushing is used to avoid rutting during cut-to-length operations	
	and create filter-strips within small openings in the RMZ. Objective is to	

	release remaining conifers from competition and allow some hardwood
	regeneration within RMZ for diversity and stream habitat.
	8. Block MH06097B: observation of 2016 aerial herbicide treatment used to
	release spruce-fir planted in 2015. Observation of retention islands of
	established conifer regeneration. Discussion on site preparation and
	herbicide treatments and how monitoring is being conducted to see if the
	number of herbicide treatments can be reduced. Application with rodeo,
	arsenal and oust.
19 October 2016	9. Main office: document and record review, and daily wrap-up.
FMU/Location/ sites visited	Activities/ notes
Ashland Region	1. Block 7292: Commercial thinning of spruce-fir stand; interview with
(Meister)	contractor and inspection of equipment, confirmed contractor training and
	safety equipment up-to-date (e.g., first aid, spill kit, fire extinguisher,
	communications such as cell phone booster, satellite phone, radio, etc.);
	inspection of site for spacing, residual stand damage and retention (white
	pine, hardwoods, snags). Discussion on ensuring quality of residual stand and
	harvested products.
	 Block 7301: Commercial thinning of spruce-fir stand; interview with
	contractor and inspection of equipment, confirmed contractor training and
	safety equipment up-to-date (e.g., first aid, spill kit, fire extinguisher,
	communications such as cell phone booster, satellite phone, radio, etc.);
	inspection of site for spacing, residual stand damage and retention (white
	pine, hardwoods, snags).
	3. Block 7301: interview with employee of contractor, confirmed training and
	safety equipment up-to-date (e.g., first aid, spill kit, fire extinguisher,
	communications such as cell phone booster, satellite phone, radio, etc.).
	4. Block 7293: Commercial thinning of spruce-fir stand; interview with
	contractor and inspection of equipment, confirmed contractor training and
	safety equipment up-to-date (e.g., first aid, spill kit, fire extinguisher,
	communications such as cell phone booster, satellite phone, radio, etc.);
	inspection of site for spacing, residual stand damage and retention (white
	pine, hardwoods, snags).
	5. Lane Brook Road: inspection of road close-out using new guidelines.
	Discussion of lessons learned and how to reduce costs while being effective.
	6. Block 7292: Overstory removal using tracked-harvester to release
	established spruce-fir regeneration. Well-formed hardwoods >9" retained for
	future value. Interview with contractor and inspection of equipment,
	confirmed contractor training and safety equipment up-to-date (e.g., first
	aid, spill kit, fire extinguisher, communications such as cell phone booster,
	satellite phone, radio, etc.); inspection of site for spacing, residual stand
	damage, and RMZ. RMZ inspected was to specifications through use of GPS
	boundaries. Discussion on harvest and extraction operational efficiency
	through sorting and placement in the field, and use of woody debris
	placement in stream restoration projects under modified state laws.
	7. Block 7386: culvert replacement inspection at Duck Pond Road due to blow-
	out. Observation of broad-based dips, diversions and up-slope smaller

Г	subjects to remove water off the read so it can drain over vegetation. All
	culverts to remove water off the road so it can drain over vegetation. All
	measures help prevent future blow-outs of larger culvert.
8	
	crossing; similar broad-based dips installed at approaches to bridge to
	prevent excessive water on road and blow-out. Drainage features are sized
	to the size of the watershed and slope so that they can handle extreme flood
	events. Discussion of watershed and water quality research in New
	Brunswick and in Maine through a partnership with the University of Maine.
9	. Block 7344/ Twin Brook Rd: observation of new culvert installation. Similar
	construction to other sites, but with use of native seed mix on exposed
	mineral soils.
1	0. EB51: observation of decommissioned road and bridge removal near beaver
	pond. Project conducted in cooperation with state agency to maintain water
	levels for fisheries and wetland habitat.
1	1. EB51: observation of 55 acre clearcut of spruce-fir with completed site
	preparation using anchor chains. Site was replanted with white pine and
	Norway spruce after preparation in 2016 and may be herbicide treated due
	to herbaceous competition in 2017. Retention area was 1.5 acres to meet
	minimum guidelines that included a bog and stream.
1	2. Block 7344: clearcut of spruce-fir and beech in 2016 using feller-buncher and
	whole-tree skid followed by disk-trenching site preparation. Will be
	replanted in 2016. Discussion on types of site preparation, planting
	techniques, monitoring of each, and future plans to test sites using no
	preparation or partial preparation.
Fort Kent/ 1	
Northwoods Region	Unique Area, known as the Allagash Ledges, that provides habitat for the
(Thompson)	rare Pygmy Snaketail (<i>Ophiogomphus howei</i>) odonate. The species is listed
(mompson)	as S2 in Maine, but is currently ranked as Least Concern on the IUCN Red List
	of Threatened Species. Aquatic life stages occur in the adjacent Allagash
	River and adults briefly live in the forest canopy adjacent to riverine habitats.
	IWLLC provided copies of consultation with the Maine Department of Inland
	Fisheries and Wildlife (MDIFW) regarding a planned partial harvest of the
	area.
2	
	20030. Generally a proposed salvage harvest of dead and declining balsam
	fir. IWLLC provided evidence of consultation with MDIFW regarding the
	proposed harvest.
3	0
	Waterway (AWW), where consultation and permitting are required in areas
	that might be viewed by represtigned users on the Allegesh Diver. Fully
	that might be viewed by recreational users on the Allagash River. Evidence
	of consultation and approvals provided by IWLLC. IWLLC foresters explained
	of consultation and approvals provided by IWLLC. IWLLC foresters explained how the harvest was modified, in consultation with the AWW, as it
	of consultation and approvals provided by IWLLC. IWLLC foresters explained how the harvest was modified, in consultation with the AWW, as it progressed to minimize visual impacts. IWLLC is working on a viewshed
	of consultation and approvals provided by IWLLC. IWLLC foresters explained how the harvest was modified, in consultation with the AWW, as it progressed to minimize visual impacts. IWLLC is working on a viewshed model using LiDAR that will improve delineation or recreational user
	of consultation and approvals provided by IWLLC. IWLLC foresters explained how the harvest was modified, in consultation with the AWW, as it progressed to minimize visual impacts. IWLLC is working on a viewshed model using LiDAR that will improve delineation or recreational user viewsheds.
4	 of consultation and approvals provided by IWLLC. IWLLC foresters explained how the harvest was modified, in consultation with the AWW, as it progressed to minimize visual impacts. IWLLC is working on a viewshed model using LiDAR that will improve delineation or recreational user viewsheds. Block 6776: Active harvest operation. Primary prescription in this hardwood
4	of consultation and approvals provided by IWLLC. IWLLC foresters explained how the harvest was modified, in consultation with the AWW, as it progressed to minimize visual impacts. IWLLC is working on a viewshed model using LiDAR that will improve delineation or recreational user viewsheds.

 using LiDAR to screen for potential islands. Discussion of how IWLLC is advancing the schedule for treating fir-dominated stands in response to anticipated spruce budworm outbreak. 5. Block 6776: Private interview with independent logging contractor. 6. Block 6776: Private interview with IWLLC female forester. 7. Block 6892: Recent harvest that included full-tree chipping operation with chipping equipment owned and operated by IWLLC. Prescriptions included thinning in riparian areas, seed tree, overstory removal, and clearcut. 8. Block 6892: Active harvest operation to observe the "mechanical processor in a box (MPB)" system. Disease-free beech retained. 	
Activities/ notes	
Document and record review, including for sites visited over previous two days, monitoring, chemical use, FSC sales, management plans, etc.; interviews with staff	
 Block 6611: Just completed logging on steep slopes. Main harvest trails constructed with an excavator and then logging done using self-leveling mechanical harvesting equipment. Secondary trails generally retain organic soils and are partially covered with logging slash, eliminating the need for waterbars. This approach to erosion and sedimentation control was discussed with state agencies. Waterbars will be constructed on main trails using excavators. 	
Closing Meeting Preparation: Auditor(s) take time to consolidate notes and confirm audit findings Closing Meeting and Review of Findings: Convene with all relevant staff to summarize audit findings, potential non-conformities and next steps	

2.2 Evaluation of Management Systems

SCS deploys interdisciplinary teams with expertise in forestry, social sciences, natural resource economics, and other relevant fields to assess an FME's conformance to FSC standards and policies. Evaluation methods include document and record review, implementing sampling strategies to visit a broad number of forest cover and harvest prescription types, observation of implementation of management plans and policies in the field, and stakeholder analysis. When there is more than one team member, team members may review parts of the standards based on their background and expertise. On the final day of an evaluation, team members convene to deliberate the findings of the assessment jointly. This involves an analysis of all relevant field observations, stakeholder comments, and reviewed documents and records. Where consensus between team members cannot be achieved due to lack of evidence, conflicting evidence or differences of interpretation of the standards, the team is instructed to report these in the certification decision section and/or in observations.

3. Changes in Management Practices

The Outcome Based Forestry agreement with the Maine Forest Service was amended in 2016 to address size limit exemptions and regeneration requirements in even-aged management units, and regular notification of townships in which harvests take place. Records of notification were verified during the 2016 audit. No issues were noted with meeting even-aged management restrictions.

4. Results of the Evaluation

4.1 Existing Corrective Action Requests and Observations

	Finding Number: 2014.5	
Select one: 🗌 Maj	or CAR Minor CAR 🗴 Observation	
FMU CAR/OBS issued to (when more than one FMU):		
Deadline	Pre-condition to certification	
	3 months from Issuance of Final Report	
	X Next audit (surveillance or re-evaluation)	
	Other deadline (specify):	
FSC Indicator:	FSC US Forest Management Standard, V1-0, 6.9.b	
Issue: IWLLC present	ed research results that describe the non-invasive character of Norway spruce;	
•	om a University of Maine project suggests that Norway spruce can naturally	
regenerate beyond th	e planted block (capstone undergraduate research paper by one of B. Seymour's	
students discussed du	ring closing meeting; Thompson, N. Norway Spruce (Picea abies) Regeneration in	
Central and Northern	Maine). IWLLC should consider repeating this monitoring effort.	
Observation: IWLLC s	should periodically monitor the establishment and abundance of Norway spruce	
seedlings outside the	planted footprint.	
FME Response 2015	A survey was completed to monitor the establishment of Norway Spruce outside	
(submitted after the	the planted footprint on a 100 year old Norway Spruce planted stand in southern	
2014 audit but prior	New Brunswick. Softwood trees were counted in 120 plots outside the planted	
to issuance of the	stand. There were 638 softwood trees of which 2 were Norway Spruce. We	
2014 audit report)	concluded that Norway Spruce is not invasive.	
SCS Review 2015	The 2015 audit team takes positive note of the additional study that Irving	
	undertook in southern New Brunswick which provides an additional data point	
	supporting a conclusion that Norway spruce is not invasive. But since this was a	
	one-time study and not conducted in Maine and because Norway spruce remains	
	a topic of discussion in the professional forestry community, the 2015 audit team	
	concludes that it would be beneficial for this Observation to be kept open for	
	another year so as to encourage IWLLC managers and field personnel to continue	
	to monitor natural regeneration of Norway spruce.	
FME Response 2016	Using the Quebec protocol, two older Norway spruce planted areas on Irving LLC	
	land in Maine were surveyed for NS found outside the planted stand boundary.	

SCS Review 2016	FME demonstrated records of its Norway spruce monitoring transects. Two Norway spruce seedlings were found on the edge of one of the transects near some road scarification. Three planted areas rather than two were checked and two transects were measured on each block using the protocol established by <u>Mottet <i>et al.</i> 2010</u> in an off-site regeneration study of Norway spruce in Quebec. The study found that off-site regeneration decreased with increasing distance from planted areas and concluded that Norway spruce does not exhibit invasive qualities. The fact that off-site regeneration was detected at a lower percentage than found in the study indicates that Norway spruce likely does not exhibit invasive qualities in this region of Maine either.
Status of CAR:	X Closed Upgraded to Major Other decision

	Finding Number: 2015.1	
Select one: 🗌 Maj	or CAR Minor CAR 🗴 Observation	
FMU CAR/OBS issued	l to (when more than one FMU): N/A	
Deadline	Pre-condition to certification	
	3 months from Issuance of Final Report	
	Next audit (surveillance or re-evaluation)	
	Uther deadline (specify):	
FSC Indicator:	FSC US Forest Management Standard, V1-0, Indicator 4.1.c	
Issue: The FSC-US Na	tional Standard, Indicator 4.1.c., requires that forest workers are provided with fair	
wages. "Forest worke	ers" include both employees and independent contractors who work on Irving's	
Maine timberlands.		
Observation: IWLLC's conformity to Indicator 4.1.c. will be maintained and enhanced through an ongoing		
commitment to its Principles for Partnership, particularly within the context of the company's pro forma		
that is used in establishing contractor rates for forest workers. The effectiveness of the Principles for		
Partnership process in establishing and maintaining fair wages for contracted forest workers could be		
made more effective through an annual, documented analysis of actual wage rates in relation to logging		
industry norms, cost of living, and inflation rates in the region.		
FME Response	An annual analysis was completed to compare IWLLC pro forma wage rates to	
(including any	logging wage rates in the region as documented by the Maine Department of	
evidence submitted)	Labor. Cost of living increase percentages were compared to <i>pro forma</i> increases.	
	IWLLC wage rates are above average for the region.	

SCS Review	FME used Maine Department of Labor (MEDOL) average weekly wages for harvest operators for 2013-2016 and compared it to their <i>pro forma</i> wage rates for the same period. FME found that in all years it pays more than the state average wages and has consistent annual increases. FME ensured that its wage rates were extracted from its rate model to ensure that only wages were compared to each other. The model includes a cost of living factor that reflects inflation rates and other factors. FME's legal team advised it against seeking wage information from other managers in the region due to anti-trust concerns, thus only state data was used. SCS requested that the FME attempt to seek median wage data from the MEDOL, but none was found. The analysis likely will be revised annually as a part of the annual updates to the <i>pro forma</i> calculations, as confirmed in interviews with staff. Refer to OBS 2016.2.
Status of CAR:	X Closed
	Upgraded to Major
	U Other decision (refer to description above)

	Finding Number: 2015.2	
Select one: 🗌 Maj	or CAR Minor CAR X Observation	
FMU CAR/OBS issued	l to (when more than one FMU): N/A	
Deadline	Pre-condition to certification	
	3 months from Issuance of Final Report	
	X Next audit (surveillance or re-evaluation)	
	Other deadline (specify):	
FSC Indicator:	FSC US Forest Management Standard, V1-0, Indicator 5.4.b	
Issue: The FSC-US National Standard, Indicator 5.4.b., requires that the forest owner or manager strives		
to diversify the econo	mic use of the forest so as to enhance contributions to the local/regional economy.	
Observation: IWLLC s	should explore the potentials for developing forest carbon offset projects on its	
Maine timberlands, as	s an opportunity to diversify the economic use of its land base.	
FME Response	A document was created that described the efforts JDI has taken to explore	
(including any	carbon offset projects in Maine. JDI completed a survey for the Keeping Maine's	
evidence submitted)	Forests Carbon Credit Program Study, which further describes the efforts made	
	and JDI's position on carbon offset projects in Maine.	
SCS Review	FME provided a summary of its analysis and possible course of action. FME is also	
	a part of Maine's forest carbon working group ("Keeping Maine's Forest Carbon	
Credit Program Study"). As FME is actively investigating this opportunity on		
	multiple levels, SCS concludes that this OBS has been met.	
Status of CAR:	X Closed	
	Upgraded to Major	
	U Other decision (refer to description above)	

	Finding Number: 2015.3	
Select one: 🗌 Maj	or CAR Minor CAR 🗴 Observation	
FMU CAR/OBS issued	l to (when more than one FMU): N/A	
Deadline	 Pre-condition to certification 3 months from Issuance of Final Report Next audit (surveillance or re-evaluation) Other deadline (specify): 	
FSC Indicator:	FSC US Forest Management Standard, V1-0, Indicator 6.5.d	
Issue: The FSC-US National Standard, Indicator 6.5.d., requires that temporary haul roads and skid trails (or forwarder trails) are designed, constructed, maintained an/or reconstructed to reduce short and long-term environmental impacts.		
Observation: During the course of the 2015 audit, a few instances of rutting and compaction associated with forwarder and harvester trails, particularly on the margins of wet sites, was observed. While the length of the observed ruts did not meet the company's definition of rutting, IWLLC should continue to be focused on avoiding rutting in the location/layout of haul trails on wet/sensitive sites across which is run heavy equipment.		
FME Response (including any evidence submitted)	A Soft Ground BMP for Cut to Length Operations was created to guide harvesters and forwarders when working on wet ground. A training video was created to assist with operator training on the BMP.	
SCS Review	FME demonstrated its BMP which includes a recommendation to brush trails, which includes diagrams and illustrations. The new BMP was included in a packet provided to loggers and covered in spring training, as verified in records and interviews with contractors.	
Status of CAR:	X Closed Upgraded to Major Other decision (refer to description above)	

		Finding Number: 2015.4
Select one: 🗌 Ma	ajor CAR 🛛 🗌 Minor CAR	X Observation
FMU CAR/OBS issue	ed to (when more than one FMU)	: N/A
Deadline	Pre-condition to certificat	
	X Next audit (surveillance or Other deadline (specify):	rre-evaluation)
FSC Indicator:	FSC US Forest Management St	andard, V1-0, Indicator 6.5.d
	lational Standard, Indicator 6.5.d. acts, unneeded roads are closed a	 , requires that to reduce short and long-term and rehabilitated.
as evidenced by the haul road entering fi meandering road se	management approach that was rom the St. Francis Checkpoint of	etter demonstrate conformances with this Indicator, taken with respect to the new mainline off-highway North Maine Woods in which the old, more eam culverts removed but otherwise not er.

FME Response (including any evidence submitted)	Road Abandonment Guidelines were created that contain three objectives to consider during abandonment to ensure that roads are closed out in a responsible manner. The objectives are safety, environmental, and revegetation to forest	
	cover.	
SCS Review	FME demonstrated that the new guidelines have been implemented in the field.	
	They are currently documented as a part of the general response to 2015 findings,	
	but will be placed into another document. Refer to OBS 2016.2.	
Status of CAR:	X Closed	
	Upgraded to Major	
	Other decision (refer to description above)	

4.2 New Corrective Action Requests and Observations

	Finding Number: 2016.1	
Select one: 🗌 Ma	ijor CAR 🗌 Minor CAR 🛛 X Observation	
FMU CAR/OBS issue	d to (when more than one FMU):	
Deadline	 Pre-condition to certification 3 months from Issuance of Final Report Next audit (surveillance or re-evaluation) Other deadline (specify): 	
FSC Indicator:	FSC-US indicator 7.1.i.	
Non-Conformity (or Background/Justification in the case of Observations): FME is considering the use		
of Bt (Bacillus thuring	gensis) an as option to control spruce budworm. If this is used, the FMP should	
include a description	of how its use conforms to C6.8.	
Corrective Action Re	equest (or Observation): If biological controls are used, the FMP should describe	
what is being used, applications, and how the management system conforms to Criterion 6.8.		
FME response	Use of biological controls to protect the forest from spruce budworm will not	
(including any	begin until 2018, at the earliest. IWLLC will be updating its management plan in	
evidence	2017 and will include a section that describes what biological controls will be	
submitted)	used, application methods and how the management system conforms to	
	Criterion 6.8.	
SCS review	Any actions implemented will be evaluated at the 2017 annual audit.	
Status of CAR:	Closed Upgraded to Major	
	U Other decision (refer to description above)	

			Finding Number: 2016.2
Select one: 🗌 Major CAR	Minor CAR	X Observation	
FMU CAR/OBS issued to (when n	nore than one FMU):		

Deadline	Pre-condition to certification		
	3 months from Issuance of Final Report		
	Next audit (surveillance or re-evaluation)		
	X Other deadline (specify): none		
FSC Indicator:	FSC-US indicator 7.2.a.		
Non-Conformity (or	Background/Justification in the case of Observations): FME has not fully decided		
where its responses	to OBS 2015.1 and 2015.4 will be incorporated into the FMP and/or its		
components, such as	s SOPs.		
Corrective Action Re	Corrective Action Request (or Observation): The FMP should be updated to incorporate the changes		
made to the manage	ment system in response to observations from 2015.		
FME response	OBS 2015.1 - The analysis of comparing IWLLC wage rates to logging wage rates in		
(including any	the region, as documented by the Maine Department of labour, will be completed		
evidence	annually as part of the annual pro forma review.		
submitted)	OBS 2015.4 - The IWLLC Road Abandonment Guidelines have been formalized and		
	posted on the corporate website as part of the management plan documents.		
SCS review	Any actions implemented will be evaluated at the 2017 annual audit. For		
	example, while the document was provided, its location on the FME's intranet will		
	have to be verified.		
Status of CAR:	X Closed		
	Upgraded to Major		
	Other decision (refer to description above)		

		Finding Number: 2016.3
Select one: 🗌 Ma	ajor CAR 🛛 🗌 Minor CAR	X Observation
FMU CAR/OBS issue	ed to (when more than one FMU):	
Deadline	 Pre-condition to certification 3 months from Issuance of F Next audit (surveillance or re Other deadline (specify): not 	Final Report re-evaluation)
FSC Indicator:	SCS COC indicators for FMEs, V5	5.1, indicator 2.3
 Non-Conformity (or Background/ Justification in the case of Observations): Examined supplemental letter to Woodland Pulp, LLC (5/9/16), which includes FSC certificate code and claim. However, claim is incorrect (FSC Pure). For other sales, FME provides a copy of its stump-to-gate procedures to its customers in addition to the load slips. While the FSC claim in communicated in procedures, they do not contain the FSC certificate code. 		
While none of this evidence constitutes a violation to FSC-US COC requirements under C8.3, it would result in the FME's COC-certified buyers receiving a non-conformity to 4.1.1 of FSC-STD-40-004, V2-1. Corrective Action Request (or Observation): FME should ensure that all sales documents issued for outputs sold with FSC claims include its FSC Forest Management (FM/COC) code and the FSC claim "FSC 100%".		

FME response (including any evidence submitted)	The FSC certification code has been added to the stump to gate chain of custody procedures. The supplier letter to Woodland Pulp now has the correct FSC claim - "FSC 100%".
SCS review	SCS reviewed the two documents provided and both were found to contain the correct FSC claim and code for customers to use to supplement other information provided as part of sales of certified material.
Status of CAR:	X Closed Upgraded to Major Other decision (refer to description above)

5. Stakeholder Comments

In accordance with SCS protocols, consultation with key stakeholders is an integral component of the evaluation process. Stakeholder consultation takes place prior to, concurrent with, and following field evaluations. Distinct purposes of such consultation include:

- To solicit input from affected parties as to the strengths and weaknesses of the FME's management, relative to the standard, and the nature of the interaction between the company and the surrounding communities.
- To solicit input on whether the forest management operation has consulted with stakeholders regarding identifying any high conservation value forests (HCVFs).

Principal stakeholder groups are identified based upon results from past evaluations, lists of stakeholders from the FME under evaluation, and additional stakeholder contacts from other sources (e.g., chair of the regional FSC working group). The following types of groups and individuals were determined to be principal stakeholders in this evaluation:

5.1 Stakeholder Groups Consulted

Maine Forest Service	Harvesting contractors
Outcome Based Forestry Panel members	IWLLC employees

Stakeholder consultation activities are organized to give participants the opportunity to provide comments according to general categories of interest based on the three FSC chambers, as well as the SCS Interim Standard, if one was used (in this audit, an Interim Standard was not used). The table below summarizes the major comments received from stakeholders and the assessment team's response. Where a stakeholder comment has triggered a subsequent investigation during the evaluation, the corresponding follow-up action and conclusions from SCS are noted below.

5.2 Summary of Stakeholder Comments and Responses from the Team, Where Applicable

FME has not received any stakeholder comments from interested parties as a result of stakeholder			
outreach activities during this annual audit.			
Stakeholder comments	SCS Response		
Economic Concerns			
All contractors interviewed stated that payment for services was fair and that work is more consistent on the FME's lands in comparison to other forests where they could work. FME- sponsored training and the bonus system were also touted as benefits.	SCS confirmed that FME has a system in place to evaluate and ensure that contractors are receiving fair pay. The system takes into account terrain, equipment type, haul distance, species, depreciation, and several other factors. FME has improved this system since the last audit by finding a way to compare it to average state wages for logging contractors. For the time period demonstrated, 2013-16, contractor pay exceeded the state average each year.		
Social Concerns			
None received.			
Environmental Concerns			
None received.			

6. Certification Decision

The certificate holder has demonstrated continued overall conformance to the applicable Forest Stewardship Council standards. The SCS annual audit team recommends that the certificate be sustained, subject to subsequent annual audits and the FME's response to any open CARs.	Yes 🗴 No 🗌	
Comments : FME continues to exhibit an exemplary level of performance to all certification requirements.		

7. Changes in Certification Scope

Any changes in the scope of the certification since the previous audit are highlighted in yellow in the tables below.

Name and Contact Information

Organization	Irving Woodlands, LLC (IWLLC)		
name			
Contact person	Scott MacDougall		
Address	300 Union Street	Telephone	506-632-6085
	St. John, New Brunswick	Fax	506-432-0518
	E2L 4M3, Canada	e-mail	MacDougall.Scott@jdirving.com
		Website	www.jdirving.com

FSC Sales Information

FSC salesperson	Same as above		
Address		Telephone	
		Fax	
		e-mail	
		Website	

Scope of Certificate

Certificate Type		🖂 Si	ngle FMU		Aultiple FMU
		G	roup		
SLIMF (if applicable)		Sr	mall SLIMF		ow intensity SLIMF
		certifi	icate	certif	icate
		G	roup SLIMF cert	ificate	
# Group Members (if app	licable)				
Number of FMU's in scop		1			
Geographic location of no	on-SLIMF FMU(s)	Latitu	de & Longitude:	47.22154	41°, -68.755697°
Forest zone		Bo	oreal	🔀 Tem	perate
		🗌 Su	ıbtropical	🗌 Trop	ical
Total forest area in scope of certificate which is:				U	Inits: 🗌 ha or 🔀 ac
privately managed		1,255	,000		
state managed					
community managed					
Number of FMUs in scope	e that are:	•			
less than 100 ha in area		100 -	1000 ha in area		
1000 - 10 000 ha in area		more	than 10 000 ha	in area	1
Total forest area in scope	Total forest area in scope of certificate which is included in FMUs that: Units: 🗌 ha or 🔀 ac				
are less than 100 ha in area			0		
are between 100 ha and 1000 ha in area			0		
meet the eligibility criteria as low intensity SLIMF FMI			0		
Division of FMUs into manageable units:					
The forestlands have also been grouped geographically into five economic zones that are used to guide					
transportation and potential silvicultural investments decisions; the zones include Allagash, Blackstone,					
Estcourt, Oakfield and Rocky Brook.					

Production Forests

Timber Forest Products	Units: 🗌 ha or 🔀 ac
Total area of production forest (i.e. forest from which timber may be	1,185,000
harvested)	
Area of production forest classified as 'plantation'	0
Area of production forest regenerated primarily by replanting or by a	70,545 acres
combination of replanting and coppicing of the planted stems	6%
Area of production forest regenerated primarily by natural	1,114,455 acres

regeneration, or by a combination of natural regeneration and	94%		
coppicing of the naturally regenerated stems			
Silvicultural system(s)	Area under type of		
	management		
Even-aged management			
Clearcut (clearcut size range 5 -249 acres)	16%		
Shelterwood	46%		
Other:			
Uneven-aged management			
Individual tree selection	38%		
Group selection			
Other:			
Other (e.g. nursery, recreation area, windbreak, bamboo, silvo-			
pastoral system, agro-forestry system, etc.)			
The sustainable rate of harvest (usually Annual Allowable Harvest or	m3 by species/mix		
AAH where available) of commercial timber (m3 of round wood)	Spruce/Fir: 547,000		
	Hardwood: 558,000		
	Cedar: 53,000		
	White Pine: 4,000		
Non-timber Forest Products (NTFPs)			
Area of forest protected from commercial harvesting of timber and	0		
managed primarily for the production of NTFPs or services			
Other areas managed for NTFPs or services	0		
Approximate annual commercial production of non-timber forest	Unknown, but relatively		
products included in the scope of the certificate, by product type	minor		
Explanation of the assumptions and reference to the data source upon	which AAH and NTFP harvest		
rates estimates are based:			
There are three major sources of data which are employed to generate y			
over time). The first one, a digital forest inventory, is compiled from the i			
photographs taken in 2010. The second source of data comes from the co			
Survey (FDS) program. These are ground plots used to ground-truth the p			
are established in a large number of stands which serve as a snapshot of			
distinct point in time. With the new 2010 digital photography, a major FD			
through 2011 and 2012. The third data source is the PSP network that is u			
the growth model. It also provides detailed data on the stand dynamics (g			
different components of the forest. Currently, there are 326 Permanent S	sample Plots established in the		
Maine district.			
The factorist of hermost and silving the convertience according throughout			
The footprint of harvest and silviculture operations occurring throughout digitally in the field and their attributes and spatial configurations are used.	-		
digitally in the field and their attributes and spatial configurations are used to continually update the photo-interpreted forest inventory. A continuously up-to-date inventory is the fundamental base for			
establishing accurate estimates of the forest structure that will provide, among other things, timber volume and wildlife habitat predictions. All growth and yield forecasting activities have been linked back			
to the forest stands within the digital (GIS) forest inventory	activities have been linked back		
Species in scope of joint FM/COC certificate: Scientific/Latin Name (Cor	nmon/Trade Name)		
Red spruce, Picea rubens			
Black spruce, Picea mariana			

White spruce, Picea glauca
Norway spruce, Picea abies
Balsam fir, Abies balsamea
Hemlock, Tsuga canadensis
Northern white cedar, Thuja occidentalis
Eastern white pine, Pinus strobus
Red pine, Pinus resinosa
White ash, Fraxinus americana
Black ash, Fraxinus nigra
American beech, Fagus grandifolia
White birch, Betula papyrifera
Yellow birch, Betula alleghaniensis
Red maple, Acer rubrum
Sugar maples, Acer saccharum
Northern red oak, Quercus rubra
Big leaf aspen, Populus grandidentata
Trembling aspen, Populus tremuloides

FSC Product Classification

Timber products				
Product Level 1	Product Level 2	Species		
W1 Rough Wood	W1.1 Roundwood (logs)	All		
W3 Wood in chips or	W3.1 Wood Chips	All		
particles				
Non-Timber Forest Products				
Product Level 1	Product Level 2	Product Level 3 and Species		

Conservation Areas

harve objee	Total area of forest and non-forest land protected from commercial harvesting of timber and managed primarily for conservation21132 acresobjectives				
High	Conserv	vation Value Forest/ Areas			
High	Conserv	vation Values present and respective areas:		Units: 🗌 ł	na or 🔀
ac					
	Code	НСУ Туре	Descriptio	on & Location	Area
	HCV1	Forests or areas containing globally, regionally or nationally significant concentrations of biodiversity values (e.g. endemism, endangered species, refugia).			
	HCV2	Forests or areas containing globally, regionally or nationally significant large landscape level forests, contained within, or containing the management unit,			

		where viable populations of most if not all naturally occurring species exist in natural patterns of distribution and abundance.			
\boxtimes	HCV3	Forests or areas that are in or contain	Yankeetuladi	153	
		rare, threatened or endangered	St Francis Floodplain	699	
		ecosystems.	Orchard Bog	534	
			Cross Lake Fen	618	
\square	HCV4	Forests or areas that provide basic	Long Lake Smelt Fishery	500	
		services of nature in critical situations	Long Lake Slopes	431	
		(e.g. watershed protection, erosion	Chase Lakes	1283	
		control).			
	HCV5	Forests or areas fundamental to meeting			
		basic needs of local communities (e.g.			
	11016	subsistence, health).			
	HCV6	Forests or areas critical to local			
		communities' traditional cultural identity			
		(areas of cultural, ecological, economic			
		or religious significance identified in			
		cooperation with such local			
	communities).				
Total	Total Area of forest classified as 'High Conservation Value Forest/ Area'4218				

Areas Outside of the Scope of Certification (Partial Certification and Excision)

N/A – All forestland owned or managed by the applicant is included in the scope.			
Applicant owns and/or manages other FMUs not under evaluation.			
Applicant wishes to excise port	ons of the FMU(s) under evaluation from the scope of certification.		
Explanation for exclusion of	The parent company of Irving Woodlands LLC (IWLLC) is J.D. Irving		
FMUs and/or excision:	Limited, corporately located in New Brunswick, Canada. J.D. Irving		
	Limited owns 3.4 million acres of forestland in Canada and Maine.		
	In total, these lands are divided into five operating districts, four of		
	which are located in Canada. Only those lands under the control of		
	the JD Irving Maine operating district within the State of Maine are		
	within the scope of this certification evaluation; Canadian lands are		
	outside the scope of this certificate. The rationale for partial		
	certification is due largely to differing regional standards between		
	the Maritime and Northeast regions. The company does not at this		
	time believe that the Maritime standard, which encompasses the		
	balance of its ownership, is an appropriate normative standard for		
	industrial/commercial forest management. J.D. Irving has been		
	actively engaged in the Maritime standards development process		
	and remains committed to re-engaging FSC certification in Canada if		
	the Maritime standard undergoes revision through a multi-		
	stakeholder and transparent process. The balance of the ownership		
	is Canadian lands which are managed under the same system as the		

	Maine Woodlands. Because of this common management system,				
	there are no concerns about the forest management of these non-				
	certified lands in Canada.				
Control measures to prevent	The other areas that are not within the scope of this Certificate are				
mixing of certified and non-	located in Canada and are geographically separate from these areas				
certified product (C8.3):	located in Maine.				
Description of FMUs excluded from or forested area excised from the scope of certification:					
Name of FMU or Stand	Location (city, state, country)	Size (🗌 ha or 🔀 ac)			
JD Irving Canada	New Brunswick Canada	2.145 million acres			

8. Annual Data Update

8.1 Social Information

Number of forest workers (including contractors) working in forest within scope of certificate					
(differentiated by gender):					
326 male workers	<mark>3</mark> female workers				
Number of accidents in forest work since last audit:	Serious: 0	Fatal: 0			

8.2 Annual Summary of Pesticide and Other Chemical Use

FME does not use pesticides.					
Commercial name of pesticide / herbicide	Active ingredient	Quantity applied annually (kg or lbs)	Size of area treated during previous year	Reason for use	
Rodeo	Glyphosate	4091.75 gallons	7,913.4	Conifer Release	
Arsenal AC	lmazapyr	114.24 gallons	7545.7	Conifer Release, Site Prep	
Accord XRT II	Glyphosate	425.25 gallons	516.9	Conifer Release, Site Prep	
Oust XP	Sulfometuromethyl	253.82 lbs	3618.8	Conifer Release, Site Prep	

Forest Management & Stump-to-Forest Gate Chain-of-Custody Surveillance Evaluation Report |