

## Sampling Plan and Tally sheet for OBAP Monitoring Events

### At the office:

1. The surveyor will establish centerlines that cross representative portions of an area of species planted within a project area. Where black spruce and red pine are planted and delineated, they will receive separate centerlines.
2. Centerlines will be marked on maps prior to sampling.
3. Up to 5 equality distant points will divide the centerline of the project area or a particular quadrant within a project area.

### In the field:

4. Centerlines will be walked prior to sampling to identify abnormalities.<sup>1</sup>
5. The surveyor will walk to each point; flip a coin to determine if the MSP will be established 15 paces to the left, or 15 paces to the right. This location will be the center point of the 50m<sup>2</sup> sample plot. Surveyor will follow SOP#2 and record the following information.
6. For areas identified as abnormal, the surveyor should track the boundaries using a handheld GPS and establish a centerline.

Hobbs 1  
MSP ID

Sept 30, 2014  
Date

Mountain  
GPS Used

Dominant Ground Cover:

Hoffman 8  
Property Name

Extreme + Pres.  
Surveyor

X, Y Coordinates

Assessment of overall health:

good to excellent

Amphibians, birds, mammals observed:

Gray jays. / sparrows.

<sup>1</sup> Abnormalities include any areas greater than 0.5 hectare in size which do not meet growth expectation or require further treatments or should be left out. Eg: high competition, high mortality, low densities or new water pooling. These should be delineated to calculate the area (ha) separately and have their own centerlines such that treatments may be applied and monitored accordingly.

## Sampling Plan and Tally sheet for OBAP Monitoring Events

Planted Tree			Pre-existing Tree		
#	Species	Height (cm)	#	Species	Height
1	Pr	22		Sw	67
2	Pr	31		Sw	14
3	Pr	22		Sw	32
4	Pr	28			
5	Pr	23			
6	Pr	30			
7	Pr	27			
8	Pr	26			
9	Pr	18			
10	Pr	29			
11	Pr	27			
12	Pr	26			
13	Pr	22			
14	Pr	32			
15	Pr	19			
16					
17					
18					

Additional Notes:

47M

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Hoff 2  
MSP ID

Sept 30, 2014  
Date

Montana  
GPS Used

Dominant Ground Cover:

grass

Assessment of overall health:

Good to excellent.

Amphibians, birds, mammals observed:

Sparrows.

Hoffman  
Property Name

Ernie / Yves  
Surveyor

X, Y Coordinates

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Planted Tree			Pre-existing Tree		
#	Species	Height (cm)	#	Species	Height
1	Pr	<del>24</del> 19		Sb	<del>22</del> 18
2	Pr	<del>27</del> 19		Sb	19
3	PV	<del>25</del> 33		bf	25
4	Pr	20		bf	37
5	Pr	24		bf	36
6	Pr	26		Sw	28
7	Pr	26		Sb	15
8	Pr	32		Sb	22
9				Sb	38
10				Sb	25
11				bf	27
12				Sw	15
13					
14					
15					
16					
17					
18					

Additional Notes:

- lots of natural
- low planted numbers.
- checked around plot, trees density was fine.

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Hoffman  
MSP ID

Sept 30, 2014  
Date

Montana.  
GPS Used

Dominant Ground Cover:

Hoffman  
Property Name

Ernie / yes  
Surveyor

X, Y Coordinates

### Assessment of overall health:

Good to excellent

### Amphibians, birds, mammals observed:

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Planted Tree			Pre-existing Tree		
#	Species	Height (cm)	#	Species	Height
1	Pr	29			
2	Pr	30			
3	Pr	25			
4	Pr	26			
5	Pr	28			
6	Pr	31			
7	Pr	34			
8	Pr	27			
9	Pr	22			
10	Pr	34			
11	Pr	27			
12	Pr	30			
13	Pr	23			
14	Pr	26			
15					
16					
17					
18					

Additional Notes:

Good to excellent

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Hoff 4  
MSP ID

Sept 30 / 14  
Date

Montana.  
GPS Used

Dominant Ground Cover:

Hoffman  
Property Name

Etienne / Yves.  
Surveyor

X, Y Coordinates

### Assessment of overall health:

Healthy trees

### Amphibians, birds, mammals observed:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Planted Tree			Pre-existing Tree		
#	Species	Height (cm)	#	Species	Height
1	Pr	27		bf	18
2	Pr	33			
3	Pr	26			
4	Pr	28			
5	Pr	27			
6	Pr	32			
7	Pr	33			
8	Pr	25			
9	Pr	24			
10	Pr	30			
11	Pr	32			
12	Pr	33			
13	Pr	25			
14	Pr	31			
15	Pr	37			
16	Pr	31			
17	Pr	30			
18					

Additional Notes:

spacing tight.



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MSP ID

Hoff 5

Date

Sept 30/14

GPS Used

Monter.

Dominant Ground Cover:

Property Name

Hoffman

Surveyor

Etienne / Yves.

X, Y Coordinates

Assessment of overall health:

Excellent

Amphibians, birds, mammals observed:

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## Sampling Plan and Tally sheet for OBAP Monitoring Events

Planted Tree			Pre-existing Tree		
#	Species	Height (cm)	#	Species	Height
1	Pr	23			
2	Pr	36			
3	Pr	26			
4	Pr	31			
5	Pr	27			
6	Pr	27			
7	Pr	34			
8	Pr	24			
9	Pr	22			
10	Pr	29			
11	Pr	33			
12	Pr	27			
13	Pr	32			
14	Pr	40			
15	Pr	47.			
16					
17					
18					

Additional Notes:

*large rabbit, doing well*

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Hoff 6  
MSP ID

Sept 30/14  
Date

Montana  
GPS Used

Dominant Ground Cover:

Hoffman  
Property Name

Ehrine / yes  
Surveyor

X, Y Coordinates

Assessment of overall health:

Good

Amphibians, birds, mammals observed:

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## Sampling Plan and Tally sheet for OBAP Monitoring Events

Planted Tree			Pre-existing Tree		
#	Species	Height (cm)	#	Species	Height
1	Sb	25			
2	Sb	41			
3	Sb	26			
4	Sb	31			
5	Sb	35			
6	Sb	38			
7	Sb	38			
8	Sb	24			
9	Sb	35			
10	Sb	39			
11	Sb	32			
12	Sb	32			
13	Sb	40			
14	Sb	38			
15					
16					
17					
18					

Additional Notes:

*Plot remained on line due to boundary stratification.*

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MSP ID Hoff 7

Date Sept 30/14

Montana.

GPS Used

Dominant Ground Cover:

Property Name Hoffman

Surveyor Etienne / Yves

X, Y Coordinates

Assessment of overall health:

good to excellent.

Amphibians, birds, mammals observed:

sparrows, gray jays, grouse

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Planted Tree			Pre-existing Tree		
#	Species	Height (cm)	#	Species	Height
1	Sb	40			
2	Sb	40			
3	Sb	42			
4	Sb	47			
5	Sb	22			
6	Sb	23			
7	Sb	38			
8	Sb	37			
9	Sb	36			
10	Sb	41			
11	Sb	34			
12	Sb	34			
13	Sb	29			
14	Sb	31			
15	Sb	24			
16	Sb	42			
17					
18					

Additional Notes:

*Bird everywhere, including Cedar waxwing.*

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14808  
MSP ID

Sept 30/14  
Date

Montana.

GPS Used

Dominant Ground Cover:

Hojiman.  
Property Name

Extreme / Quos  
Surveyor

X, Y Coordinates

### Assessment of overall health:

- good  
- some pruning

### Amphibians, birds, mammals observed:

- evidence of deer bedding in tall  
grass  
- 7

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#	Species	Height (cm)	#	Species	Height
1	Pr	<del>18</del> 32		Sb	28
2	Pr	<del>28</del> 28		Sb	23
3	Pr	24		Sb	20
4	Pr	35		Sb	34
5	Pr	27		Sb	24
6	Pr	24		bf	25
7	Pr	18		Sb	25
8	Pr	29		Sb	24
9	Pr	32			
10	Pr	22			
11	Pr	27			
12	Pr	27			
13	Pr	<del>18</del>			
14					
15					
16					
17					
18					

Additional Notes:

- edge of stratified area.
- grass heavy @ fines
- lots of materials



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MSP ID H6189

Date Sept 30, 2014

GPS Used Montana

Dominant Ground Cover:

grass + sedges

Assessment of overall health:

good to excellent

Property Name Hoffman

Surveyor Etienne + Yves

X, Y Coordinates

Amphibians, birds, mammals observed:

- grouse (pied)

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#	Species	Height (cm)	#	Species	Height
1	Pr	26			
2	Pr	19			
3	Pr	21			
4	Pr	25			
5	Pr	19			
6	Pr	27			
7	Pr	21			
8	Pr	17			
9	Pr	27			
10	Pr	22			
11	Pr	25			
12	Pr	24			
13	Pr	22			
14	Pr	21			
15	Pr	24			
16					
17					
18					

Additional Notes:

*presence of deer (i.e. baldpate grass)*