

Fahn, Patrick J.

From: Craycroft, Stephen [scraycroft@ensr.aecom.com]
Sent: Tuesday, May 06, 2008 1:09 PM
To: Fahn, Patrick J.
Cc: Todd Kranda; Buster Gray; Stuart, Dennis
Subject: Woodlot Sampling Locations
Attachments: Copy of ND_Tree_Shrub Inventory Sites.xls

Pat:

Attached is a table showing the locations of woodlots and shelterbelts in ND identified from the aerials, with the specific areas for tree/shrub inventorying noted (all shelterbelts and tree rows were inventoried). The woodlots identified for tree/shrub inventory using the sampling methodology outlined in the Tree and Shrub Sampling Plan are also noted in the table.

I received additional information from the Lead Biologist who coordinated the tree and shrub sampling effort. This information is summarized below:

"For all of the woodlot sampling locations, the biologists conducting the field sampling made an effort to pick woodlots along the entire line in ND to get a representative sampling from north to south of the numbers and species of trees and shrubs. Once you get past about MP 50, the number of woodlots decreases dramatically. The sampling techniques for the woodlots followed those outlined in the protocol that was sent to the ND PSC. Two sample plots 20 ft x 50 ft were set up in each woodlot selected for inventory. The surveyors did try to set up sample plots within representative areas within the woodlot."

Please let me know if you would like additional information or if any questions come up.

Best Regards,

Steve Craycroft
ENSR
Keystone Project Environmental Liaison
816-880-4881 (o)
970-219-0184 (c)

437 PU-06-421 Filed: 5/5/2008 Pages: 5
Email re: Woodlot Sampling Locations

From_Mp	To_MP	LULC	Survey Type	Survey Scheduled
0.00	0.01	UF	Windbreak	Y
0.11	0.13	UF	Windbreak	Y
0.79	0.79	UF	Windbreak	Y
0.90	0.90	UF	Windbreak	Y
4.32	4.50	PFO	Woodlot	Y
4.66	4.76	UF	Woodlot	Y
4.80	4.91	UF	Woodlot	
5.04	5.09	UF, PFO	Woodlot	
5.95	5.95	UF	Windbreak	Y
6.86	6.88	UF	Woodlot	
6.89	7.06	UF	Woodlot	
7.09	7.11	UF	Woodlot	Y
7.21	7.34	UF	Woodlot	
7.62	7.63	UF	Windbreak	Y
7.95	7.97	UF	Windbreak	Y
8.50	8.51	UF	Windbreak	Y
8.98	8.99	UF	Windbreak	Y
9.17	9.17	UF	Windbreak	Y
9.32	9.32	UF	Windbreak	Y
9.48	9.49	UF	Windbreak	Y
9.99	10.00	UF	Windbreak	Y
10.23	10.24	UF	Windbreak	Y
11.23	11.23	UF	Windbreak	Y
11.74	11.75	UF	Windbreak	Y
13.02	13.15	UF	Woodlot	Y
13.35	13.36	UF	Windbreak	Y
13.46	13.48	UF	Windbreak	Y
13.59	13.59	UF	Windbreak	Y
13.75	13.76	UF	Windbreak	Y
14.22	14.22	UF	Windbreak	Y
16.11	16.15	UF	Woodlot	
16.55	16.56	UF	Woodlot	
16.61	16.64	UF	Woodlot	
16.95	17.02	UF, PFO	Woodlot	Y
17.72	17.75	UF	Windbreak	Y
17.98	18.10	UF	Woodlot	
18.33	18.47	UF	Woodlot	Y
20.20	20.23	UF	Windbreak	Y
20.38	20.40	UF	Windbreak	Y
20.89	20.90	UF	Windbreak	Y
21.00	21.01	UF	Windbreak	Y
21.40	21.46	UF	Woodlot	
22.67	22.74	UF	Woodlot	Y
23.63	23.67	UF	Woodlot	
24.64	24.67	UF	Woodlot	
25.06	25.11	UF	Woodlot	Y
25.15	25.15	UF	Windbreak	Y
25.91	25.92	UF	Windbreak	Y
28.51	28.51	UF	Windbreak	Y
28.58	28.58	UF	Windbreak	Y
29.31	29.41	UF	Woodlot	

29.44	29.45 UF	Windbreak	Y
29.94	30.10 UF	Woodlot	Y
30.99	31.01 UF	Woodlot	
31.33	31.43 UF	Woodlot	Y
31.74	31.95 UF	Woodlot	Y
32.01	32.01 UF	Windbreak	Y
32.29	32.36 UF	Woodlot	
33.22	33.43 UF	Woodlot	
34.45	34.46 UF	Windbreak	Y
34.74	34.79 UF	Woodlot	
34.84	34.85 UF	Windbreak	Y
35.23	35.36 UF	Woodlot	Y
36.26	36.32 UF	Woodlot	
37.11	37.29 UF	Woodlot	Y
38.10	38.18 UF	Woodlot	
40.07	40.08 UF	Windbreak	Y
41.33	41.51 UF	Woodlot	Y
41.59	41.61 UF	Woodlot	
41.66	41.71 UF	Woodlot	
41.86	41.90 UF	Woodlot	
41.99	41.99 UF	Woodlot	
42.33	42.35 UF	Woodlot	
42.40	42.46 UF	Woodlot	
42.69	42.71 UF	Woodlot	
44.77	44.77 UF	Woodlot	
46.38	46.51 UF	Woodlot	Y
49.21	49.26 UF	Woodlot	Y
49.83	49.84 UF	Windbreak	Y
52.43	52.45 UF	Windbreak	Y
52.57	52.57 UF	Windbreak	Y
52.85	52.86 UF	Woodlot	
53.04	53.05 UF	Windbreak	Y
53.16	53.17 UF	Windbreak	Y
53.93	54.00 UF	Windbreak	Y
54.64	54.90 UF	Woodlot	Y
56.33	56.35 UF	Windbreak	Y
57.04	57.07 UF	Windbreak	Y
58.01	58.03 UF	Windbreak	Y
58.42	58.44 UF	Woodlot	
61.88	61.90 UF	Windbreak	Y
63.77	63.79 UF	Windbreak	Y
64.88	64.89 UF	Windbreak	Y
65.48	65.49 UF	Windbreak	Y
65.66	65.68 UF	Windbreak	Y
73.83	73.84 UF	Windbreak	Y
77.55	77.60 UF	Windbreak	Y
84.04	84.04 UF	Windbreak	Y
84.28	84.28 UF	Windbreak	Y
92.85	92.85 UF	Windbreak	Y
92.96	92.96 UF	Windbreak	Y
94.60	94.61 UF	Windbreak	Y
96.17	96.19 UF	Windbreak	Y

96.64	96.70 UF	Windbreak	Y
104.52	104.53 UF	Windbreak	Y
107.04	107.12 UF	Windbreak	Y
117.14	117.17 UF	Windbreak	Y
118.14	118.15 UF	Windbreak	Y
121.38	121.40 UF	Windbreak	Y
121.54	121.56 UF	Windbreak	Y
123.45	123.49 UF	Woodlot	Y
124.49	124.54 UF	Woodlot	Y
130.71	130.73 UF	Windbreak	Y
133.17	133.17 UF	Windbreak	Y
141.82	141.83 UF	Windbreak	Y
147.81	147.84 UF	Windbreak	Y
148.54	148.55 UF	Windbreak	Y
148.81	148.82 UF	Windbreak	Y
149.50	149.50 UF	Windbreak	Y
149.70	149.70 UF	Windbreak	Y
149.88	149.88 UF	Windbreak	Y
153.08	153.09 UF	Windbreak	Y
153.21	153.22 UF	Windbreak	Y
157.37	157.40 UF	Woodlot	Y
165.54	165.55 UF	Windbreak	Y
168.11	168.27 UF	Woodlot	Y
168.64	168.74 UF	Woodlot	Y
168.85	169.13 UF	Woodlot	Y
171.85	171.89 UF	Woodlot	Y
172.05	172.13 UF	Windbreak	Y
174.36	174.36 UF	Windbreak	Y
175.19	175.26 UF	Woodlot	Y
177.93	177.94 UF	Windbreak	Y
178.02	178.03 UF	Windbreak	Y
178.13	178.13 UF	Windbreak	Y
178.38	178.39 UF	Windbreak	Y
180.48	180.49 UF	Windbreak	Y
180.65	180.66 UF	Windbreak	Y
182.48	182.50 UF	Windbreak	Y
182.90	182.91 UF	Windbreak	Y
183.50	183.51 UF	Windbreak	Y
183.75	183.76 UF	Windbreak	Y
184.66	184.68 UF	Windbreak	Y
190.12	190.14 UF	Windbreak	Y
191.96	191.99 UF	Windbreak	Y
192.02	192.03 UF	Windbreak	Y
193.89	193.91 UF	Windbreak	Y
196.54	196.56 UF	Windbreak	Y
196.60	196.63 UF	Windbreak	Y
206.82	206.83 UF	Woodlot	Y
208.91	208.97 UF	Woodlot	Y
211.47	211.48 UF	Windbreak	Y
211.60	211.61 UF	Windbreak	Y
211.72	211.73 UF	Windbreak	Y
212.29	212.33 UF	Windbreak	Y

212.47	212.52 UF	Windbreak	Y
213.42	213.45 UF	Woodlot	Y
213.98	213.99 UF	Woodlot	Y
215.03	215.10 UF	Woodlot	Y
216.23	216.25 UF	Windbreak	Y