BLACKIEMUIR AVENUE, LAURENCEKIRK ABERDEENSHIRE



Archaeological Evaluation

Carried out May 2015

by

Murray Archaeological Services Ltd



Report No: MAS 2015-14 by H K Murray and J C Murray

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-Archaeological Evaluation -

H K Murray and J C Murray

1. Background

- 1.1 A Planning Application (APP/2008/1644) was granted permission for the development of a housing estate on a green field site at Blackiemuir Avenue, Laurencekirk, Aberdeenshire.
 - An archaeological condition was applied to this application in the context of Scottish Planning Policy (PAN 2/2011, SPP, SHEP).
 - The condition required that there should be a programme of archaeological works in accordance with a written scheme of investigation approved by the Archaeology Service, Aberdeenshire Council. This stipulated that no development should take place before the implementation of a 7-10% archaeological evaluation.
- 1.2 The archaeological condition was applied in the context of planning legislation (PAN 2/2011, SPP, SHEP), which states that it is necessary for developers to arrange for archaeological work to take place prior to development, in appropriate circumstances.
- 1.3 Murray Archaeological Services Ltd was commissioned by Muir Homes Ltd to undertake the work.

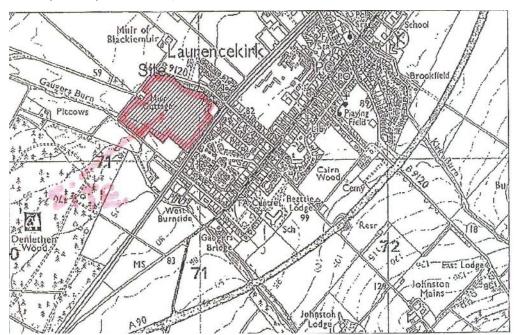
1.4 The evaluation was undertaken between 25th and 1st June 2015.

2. The Site

2.1 The evaluation area lay to the SW of the village, extending between Blackiemuir Avenue (B9120), the railway and two public footpaths.

The total area was 11.3 hectares (Illus 1, 7). However the area that could be evaluated was limited by a number of factors such as proximity to neighbouring properties and overhead cables. At the time of the evaluation the site was in crop so some effort was made to avoid tram lines where possible.

Parish: Laurencekirk NGR (central) NO 70844, 71272



Illus 1 Location of site. Courtesy of Muir Homes Ltd

2.2 The site slopes gently down from 75m OD at the E side to c 65m OD at the lowest SW corner. The Gaugers Burn lies parallel to the SW side of the site.

3 Methodology

- 3.1 The cultivated topsoil was removed by a full slew excavator with a 2m wide toothless ditching bucket. Any possible features were cleaned and excavated by hand.
- 3.2 All mapping was done with a Magellan Mobile Mapper 120 GPS and Glonass.



Illus 2 General view of site looking E

4. Desktop survey

4.1 Map evidence

Roy's Military map 1747-55

Roy shows the settlement of Laurencekirk to the S of the Kirk Burn. The ground to the SW towards the Mill of Blackymuir (sic) which includes the present site is shown as largely rig and furrow.

William Garden. A Map of Kincardineshire. Surveyed 1774, published 1797
This shows rig and furrow cultivation to the SW of the kirk in the area of Blacky Moor (sic). The area of the present site appears to be divided into four enclosed fields with rig and furrow shown (illus 3).



Illus 3 William Garden. A Map of Kincardineshire. Surveyed 1774, published 1797. www.nls.ac.uk (Approximate area of site outlined in red).

1st Ordnance Survey Map. 1864 (published 1868)

Kincardine sheet xxiv.5

The railway is now shown cutting across the SE side of the area, with the area of the site divided into a number of smaller fields, but retaining the main NE/SW line of the earlier division. Mains of Blackiemuir farm and West Muir/Muir Cottage are shown, both of which still remain (Illus 4).

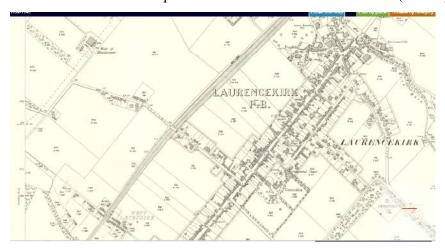


Illus 4 OS Map of 1864 (pub 1868) <u>www.nls.ac.uk</u> (Approximate site outline in red)

Ordnance survey 1901 (published 1904)

Kincardineshire sheet 027.02

By 1901 more cottages have been built along Blackiemuir Avenue and the field divisions have been simplified to three fields in the site area (Illus 5).



Illus 5 OS map of 1901 (pub 1904) www.nls.ac.uk

Ordnance survey 1923 (published 1925)

Kincardineshire sheet 027.02

There is no change to the area of the site by 1923 (Illus 6).



Illus 6 OS map of 1923 (pub 1925) www.nls.ac.uk

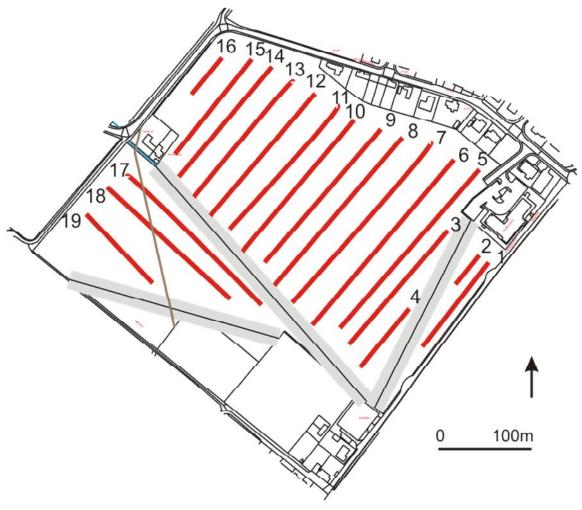
4.2 General background

Laurencekirk was a planned town developed from 1765 by Francis, Lord Gardenstone as a weaving town. It became a burgh of barony in 1779. This replaced an earlier settlement. According to the 2nd statistical Account of 1834-45, the earlier settlement of Kirktown was on the Haulkerton Estate and was shown on Haulkerton estate plans as the Kirkton of Conveth.

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4 Results of the Evaluation

Nineteen evaluation trenches were excavated in total (Illus 7).



Illus 7 Plan showing location of trenches (red). The exclusion zone on either side of the overhead electric cables is shown in grey. A sewer line is shown as a brown line. OS map reproduced Crown Copyright. Licence 100041040

Trench 1

GPS NE end: 371054,771202 SW end: 370982,771109

Orientation: NE/SW Length: 116m Width: 2.0m

Depth above natural: 350-400mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

Features

No Easting Northing Feature Comment
1 370986.4 771115.2 Drain
2 370990.3 771119.8 Drain
3 371013.4 771149 Drain

4 371019.3 771156.8 Drain

Trench 2

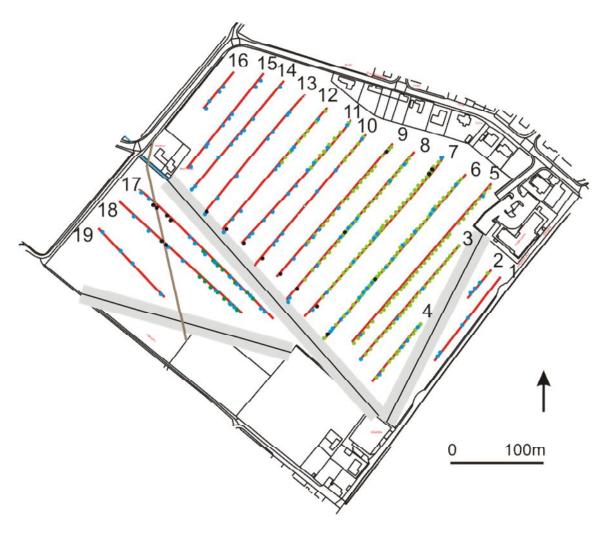
GPS NE end: 371044,771208 SW end: 371017,771176

Orientation: NE/SW Length: 41m Width: 2.0m

Depth above natural: 400mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

No	Easting	Northing	Feature	Comment
5	371022.5	771182.9	Drain	E/W
6	371027.2	771188.6	Drain	E/W
7	371032.1	771194.3	Drain	E/W
8	371040.3	771204.2	Rig and furrow	NE/SW



Illus 8 Plan of trenches with all features (green=rig and furrow. Blue=drains. Black=Other features [all modern]) OS map reproduced Crown Copyright. Licence 100041040

GPS NE end: 371103,771236 SW end: 370903,771110

Orientation: NE/SW Length: 166m Width: 2.0m

Depth above natural: 350-400mm to 600mm in furrows

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

(Illus 9)



Illus 9 Trench 3 looking S. Furrows of rig and furrow marked by red flags $\,$

<u>Features</u>

In trench 3 the width, orientation and depths of furrows were recorded to give a range for the site. In other trenches only atypical examples were recorded in this detail.

No	Easting	Northing	Feature	Comment
9	371009.6	771233.5	Rig and furrow	NE/SW. W: 2.2m.
				Depth:600mm from surface
10	371004.9	771228.7	Rig and furrow	NE/SW. W: 2.8m.
				Depth:550mm from surface
11	371000.9	771223.8	Rig and furrow	NE/SW. W: 2.5m.
				Depth:550mm from surface
12	370997.8	771219.4	Rig and furrow	NE/SW. W: 2.3m.
				Depth:500mm from surface
13	370993.8	771215.3	Rig and furrow	NE/SW. W: 2.0m.
				Depth:500mm from surface
14	370988.8	771209.4	Rig and furrow	NE/SW. W: 2.2m.
				Depth:550mm from surface
15	370985.8	771205.7	Rig and furrow	NE/SW. W: 2.3m.
				Depth:550mm from surface
16	370981.6	771200.9	Rig and furrow	NE/SW. W: 2.0m.

17	370977.7	771196.7 Rig and furrow	Depth:550mm from surface NE/SW. W: 2.4m.
17	370377.7	77 1150.7 Trig and fairow	Depth:600mm from surface
18	370973.3	771190.5 Drain	
19	370971.2	771187.8 Drain	
20	370967.2	771183.7 Rig and furrow	NE/SW. W: 2.5m.
21	370963	771179.3 Rig and furrow	Depth:500mm from surface NE/SW. W: 2.1m.
21	370903	111119.5 Rig and fullow	Depth:550mm from surface
22	370960.7	771175.6 Rig and	NE/SW. W: 2.0m.
		•	Depth:500mm from surface
23	370956.6	771170.2 Rig and	NE/SW. W: 2.3m.
24	370952.5	771166.5 Drain	Depth:600mm from surface NE/SW. W:0.60
25	370932.3	771162.4 Rig and furrow	
20	010040.2	77 1102.4 rag and ranow	Depth:500mm from surface
26	370946.8	771159.3 Drain	
27	370943.6	771155.9 Rig and furrow	NE/SW. W: 3m.
			Depth:450mm from surface
			Later drain along edge of furrow
28	370939.5	771151.2 Rig and furrow	NE/SW. W: 2.1m.
		-	Depth:600mm from surface
29	370936.3	771146.2 Rig and furrow	NE/SW. W: 1.8m.
30	370931.6	771142.6 Rig and furrow	Depth:550mm from surface NE/SW. W: 1.8m.
30	370931.0	77 1142.0 Kig and fullow	Depth:500mm from surface
31	370926.9	771137.4 Rig and furrow	NE/SW. W: 1.9m.
			Depth:600mm from surface
32	370921.7	771131.5 Rig and furrow	NE/SW. W: 2m.
33	370914.6	771123.4 Rig and furrow	Depth:600mm from surface NE/SW. W: 2.2m.
55	0.0011.0		Depth:600mm from surface
34	370910	771118 Rig and furrow	NE/SW. W: 2m.
25	070004.5	774440 De-1-	Depth:500mm from surface
35	370904.5	771112 Drain	

GPS NE end: 370969,771151 SW end: 370916,771086

Orientation: NE/SW Length: 85m Width: 2.0m

Depth above natural: 400mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

<u>Features</u>

No	Easting	Northing	Feature	Comment
36	370921.5	771093	Rig and furrow	
37	370924.5	771096.2	Water pipeline	
38	370928.6	771101.2	Water pipeline.	
			Or rig and	
39	370935	771109.3	Rig and furrow	
40	370938.8	771114.2	Rig and furrow	
41	370942.9	771118.9	Rig and furrow	Drain cut in base of furrow
42	370945	771121.2	Rig and furrow	Drain cut in base of furrow

370949.4 771125.7 Drain 43 44 370950.4 771127.1 Rig and furrow 45 370954.6 771132.4 Stone drain 46 370955.7 771135.5 Rig and furrow 47 370959.6 771140.1 Rig and furrow 48 370962.5 771143.4 Rig and furrow 49 370964.1 771145.6 Drain 50 370965.6 771147.2 Rig and furrow 51 370968.6 771150.3 Rig and furrow

Trench 5

GPS NE end: 371044,771298 SW end: 370893,771126

Orientation: NE/SW Length: 235m Width: 2.0m

Depth above natural: 350-400mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

No	Easting	Northing	Feature	Comment
52	371042.6	771296.4	Rig and fu	ırrow
53	371037.8	771291	Rig and fu	irrow
54	371034.5	771287	Drain	
55	371033.1	771285.3	Rig and fu	irrow
56	371026.9		Rig and fu	
57	371023.3	771274.7	Rig and fu	ırrow
58	371018.5	771269.4	Rig and fu	irrow
59	371014		Rig and fu	
60	371009.4		Rig and fu	
61	370999.6		Rig and fu	
62	370997.1		Rig and fu	
63	370992.6		Rig and fu	
64	370988.8		Rig and fu	
65	370984.7		Rig and fu	
66	370980.8		Rig and fu	
67	370977		Rig and fu	
68	370972.3		Rig and fu	
69	370969		Rig and fu	
70	370964.5		Rig and fu	
71	370960.5		Rig and fu	
72	370957.1		Rig and fu	
73	370953.8		Rig and fu	
74	370950.2		Rig and fu	
75	370947.5		Rig and fu	
76	370943.3		Rig and fu	
77	370939.6		Rig and fu	
78	370935.3		Rig and fu	
79	370932		Rig and fu	
80	370928.4		Rig and fu	
81	370925.5		Rig and fu	
83	370917.4		Rig and fu	
84	370911.9		Rig and fu	
85	370906.3		Rig and fu	irrow
86	370904.3	771137.9	Drain	

07	070004.0	774405 D: 16

87	370901.3	771135 Rig and furrow
88	370896.9	771129.6 Rig and furrow

GPS NE end: 371017,771311 SW end: 370863,771132

Orientation: NE/SW Length: 237 m Width: 2.0m

Depth above natural: 300-400mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

<u>Features</u>

No	Easting	Northing	Feature	Comment
89	370865.5	771134.9	Rig and furrow	
90	370868.3	771138.8	Disturbed shallow patch	Modern
91	370871.5	771143	•	
92	370873.8	771145.8	Drain	
93	370877.5	771149.3	Rig and furrow	
94	370883.3	771155.3	Drain	
95	370885.7	771158.4	Rig and furrow	
96	370889.1	771161.5	Drain	
97	370891.6	771164.5	Rig and furrow	
98	370897.2	771171.5	Rig and furrow	
99	370901.3	771176.4	Rig and furrow	
100	370903.1	771178.8	Drain	
101	370905.1	771181.6	Rig and furrow	
102	370907.3	771184.4	Drain	
103	370909.2		Rig and furrow	
104	370910.6	771188.2		
105	370913.4	771191.5	Rig and furrow	
106	370917.1	771195.7	Drain	
107	370918.1		Rig and furrow	
108	370920.1		Burnt patch	Modern
109	370922.1		Rig and furrow	
110	370925.3		Rig and furrow	
111	370928.9		Rig and furrow	
112	370931.4	771211.7		
113	370932.3		Rig and furrow	
114	370936.8		Rig and furrow	
115	370939		Stone drain	
116	370940.6		Rig and furrow	
117	370944.1		Rig and furrow	
118	370948.1		Rig and furrow	
119	370950.1	771234.5	-	
120	370952.2		Rig and furrow	
121	370955.2		Rig and furrow	
122	370959.9		Rig and furrow	
123	370962.8	771249.3		
124	370964.2		Rig and furrow	
125			Rig and furrow	
126			Rig and furrow	
127			Rig and furrow	
128	370978.7	771267.9	Drain	

129	370980.7	771270.5 Rig and furrow	
130	370983.3	771273.5 Drain	
131	370985.1	771275.7 Rig and furrow	
132	370989.8	771280.9 Rig and furrow	
133	370994.4	771286.5 Rig and furrow	
134	370998.7	771290.9 Rig and furrow	Modern drain along edge of furrow
135	371003.1	771295.7 Rig and furrow	Modern drain along edge of furrow
136	371007.2	771300.3 Drain	
137	371008	771301.1 Rig and furrow	
138	371012.9	771306.6 Rig and furrow	Modern drain along edge of furrow

GPS NE end: 370993,771330 SW end: 370842,771155

Orientation: NE/SW Length: 230m Width: 2.0m

Depth above natural: 350-400mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

<u> </u>	41 05			
No	Easting	Northing	Feature	Comment
139	370991.7	771328.2	Drain.	Along trench. Cuts furrow 140
140	370987.8	771324.3	Rig and furrow	
141	370983.1	771319	Rig and furrow	
142	370980.3	771316.4	Modern	Shallow with stony fill.
			disturbance	
143			Rig and furrow	
144	370978	771312	Modern	
115	270074.0	771200 6	disturbance	
145			Rig and furrow	
146 147			Rig and furrow	
148			Rig and furrow	
149			Rig and furrow	
150			Rig and furrow Rig and furrow	
151			Rig and furrow	
152			Rig and furrow	
153			Rig and furrow	
154			Rig and furrow	
155			Rig and furrow	
156			Rig and furrow	
157			Rig and furrow	
158			Rig and furrow	
159			•	
160			Rig and furrow	
161			-	
162			Rig and furrow	
163			Rig and furrow	
164			Rig and furrow	
165			Rig and furrow	
166			Rig and furrow	
167			•	
168			Rig and furrow	
169	370890		Rig and furrow	
			-	

170	370885.8	771205.3 Rig and furrow	
171	370880.6	771199.7 Rig and furrow	
172	370876	771194.2 Rig and furrow	
173	370871	771188 Rig and furrow	Not very clear as more ploughed out
174	370867.9	771184.5 Drain	
175	370863.6	771179.5 Rig and furrow	
176	370856.2	771170.2 Drain	
177	370852.2	771165.6 Drain	
178	370849.2	771162.4 Possible rig	Not very clear as more ploughed out
		and furrow.	

GPS NE end: 370961,771335 SW end: 370822,771172

Orientation: NE/SW Length: 215m Width: 2.0m

Depth above natural: 350mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

<u>Features</u>

No	Easting	Northing	Feature	Comment
179	370825.3	•		
180	370827			
181	370836.3			
182	370844.8		Rig and furrow	
183	370853		Rig and furrow	
184	370858.7		-	
185	370860		Rig and furrow	
186	370865.6		Rig and furrow	
187	370870.9		Rig and furrow	
188	370876.4		Rig and furrow	
189	370881	771240.2	Rig and furrow	
190	370883.3	771243.6	Drain	SE/NW
191	370885.2	771245.7	Rig and furrow	
192	370886.8	771247.7	Test pit?	
193	370889.2	771250.6	Rig and furrow	
194	370890.9	771252.3	Drain	SE/NW
195	370893.4	771255.5	Rig and furrow	
196	370897.1	771259.1		SE/NW
197	370898.5		Rig and furrow	
198	370901.5			SE/NW
199	370903.1		Rig and furrow	
200	370907.9		Rig and furrow	
201	370912.6		Rig and furrow	
202	370916.9		Rig and furrow	
203	370921		Rig and furrow	
204	370925.4		Rig and furrow	
205	370929.2		Rig and furrow	
206	370933.7		Rig and furrow	
207	370935.9			
208	370937.6		Rig and furrow	
209	370941.6		Rig and furrow	
211	370949	771319.5	Rig and furrow	
212	370952.1	771323	Drain	NE/SW along trench. Cuts 211 & 213

213 370952.6 771323.6 Rig and furrow214 370956 771327.9 Rig and furrow

Trench 9

GPS NE end: 370939,771343 SW end: 370811,771197

Orientation: NE/SW Length: 193m Width: 2.0m

Depth above natural: 300-450mm

Stratigraphy: Topsoil over red gritty clay natural – S end more gravelly. Features only

visible cut into natural.

Features

No	Easting	Northing	Feature	Comment
212	370937	771341.7	Rig and furrow	
213	370934	771338.1	Rig and furrow	
214	370931.7	771335.7	Disturbance	Modern
215	370928.2	771330.9	Rig and furrow	
216	370919.3	771320.2	Rig and furrow	
217	370915.4	771316	Rig and furrow	
218	370912.3	771312.2	Rig and furrow	Almost ploughed out
219	370908.5	771307.4	Rig and furrow	Later stone drain along base of furrow
220	370904.1		Rig and furrow	Almost ploughed out
221			Rig and furrow	Almost ploughed out
222	370896.5		Rig and furrow	Almost ploughed out
223	370890.1	771286.6	Rig and furrow	
224	370885.9		Rig and furrow	
225	370881.3	771276.1	Rig and furrow	
226	370879.5	771274	Drain	NW/SE
227	370874.7		Rig and furrow	
228	370869.4	771262.4	Rig and furrow	
229	370864.3	771256.7	Rig and furrow	
230	370860.2	771251.7	Rig and furrow	
231	370859.2	771250.8	3 Drain	Cuts along edge of furrow 230
232	370854.8	771245.9	Rig and furrow	
233	370852.7	771243.5	Drain	
234	370848.5	771239	Rig and furrow	
235	370846	771236	5 Drain	
236	370833.1	771221	Drain	Runs c 6m along trench from this point
237	370818.2	771204.5	Drain	

Trench 10

GPS NE end: 370909,771352 SW end: 370788,771208

Orientation: NE/SW Length: 188m Width: 2.0m

Depth above natural: 350-500mm

Stratigraphy: Topsoil over red gritty clay natural – quite gravelly/pebbly in places.

Features only visible cut into natural.

<u>Features</u>

No	Easting	Northing	Feature	Comment
238	370798.3	771221.3	Drain	with later drain cut into it
			(Concrete pipe)	
239	370810.4	771235.2	Drain	
240	370814.3	771240.5	Drain	
241	370820	771247.6	Drain	
242	370830.3	771258.7	Rig and furrow	
243	370837.6	771268.1	Rig and furrow	
244	370844.3	771276.9	Rig and furrow	
245	370857.6	771293	Drain	
246	370877.5	771315.5	Drain	
247	370882.4	771321.4	Rig and furrow	
248	370886.5	771326.3	Rig and furrow	Stone drain cut along edge
249	370889.9	771330.3	Rig and furrow	
250	370895.3	771336.2	Rig and furrow	
251	370901.6	771343.7	Rig and furrow	
252	370905.2	771348.2	-	
253	370907.1	771350.5	Rig and furrow	
			=	

GPS NE end: 370893,771368 SW end: 370775,771233

Orientation: NE/SW Length: 180 m Width: 2.0m

Depth above natural: 350-500mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

<u>Features</u>

No	Easting	Northing	Feature	Comment
254	370890.2	771365.9	Rig and furrow	
255	370889.3	771364.4	Drain	
256	370882.2	771356.1	Rig and furrow	
257	370876.6	771349.5	Rig and furrow	
258	370870.7	771342.4	Rig and furrow	
259	370869.6	771341	Drain	
260	370865.5	771336.3	Rig and furrow	
261	370861.4	771331.5	Rig and furrow	
262	370856.4	771325.7	Rig and furrow	
263	370854.5	771323.4	Rig and furrow	
264	370851.3	771318.9	Rig and furrow	
265	370847.6	771315.6	Stone drain	
266	370834.7	771299.9	Drain	
267	370826.5	771291.1	Drain	
268	370809.3	771271.6	Stone drain	
269	370801.6	771262.5	Drain	
270	370800.7	771261.5	Stone drain	NNW/SSE along trench 6m
271	370787.7	771247.9	Drain	
272	370785.5	771245.2	Drain	
273	370779.1	771237.9	Ditch	Concrete pipe

Trench 12

GPS NE end: 370869,771382 SW end: 370755,771248

Orientation: NE/SW Length: 177 m Width: 2.0m

Depth above natural: 350-600mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

<u>Features</u>

No	Easting	Northing	Feature	Comment
274	370757.6	771249.5	Stone drain	
275	370759.7	771252.4	Ditch	Concrete pipe
276	370767.4	771263.7	Stone drain	
277	370775.7	771272.4	Drain	
278	370813.9	771316.8	Drain	
279	370817.1	771320.9	Drain.	
280	370819.3	771323.9	Rig and furrow?	
281	370823.5	771328.9	Rig and furrow?	
283	370828.9	771335.7	Rig and furrow	
284	370831.1	771337.8	Drain	
285	370831.9	771339.7	Drain south	
286	370839.2	771347	Rig and furrow	
287	370843.7	771352.8	Rig and furrow	Later drain cut into it
288	370847.7	771357.9	Rig and furrow	
			poss	
			disturbance	
289	370857.8	771368.5	Rig and furrow	
200	270050.0	774000 5	poss	
290			-	
291	370867.3	771379.9	Rig and furrow	

Trench 13

GPS NE end: 370845,771396 SW end: 370737,771269

Orientation: NE/SW Length: 168m Width: 2.0m

Depth above natural: 300-450mm

Stratigraphy: Topsoil over red gritty clay natural with stony patches to N end. Features only visible cut into natural.

No	Easting	Northing	Feature	Comment
292	370738.1	771269.4	Stone drain	Cuts 293
293	370738.7	771271	Drain	Concrete pipe
294	370751.6	771285.7	Stone drain	
295	370771.5	771309.9	Stone drain	
296	370805.5	771349.9	Drain	
297	370811	771356.5	Drain	
298	370815.3	771362.3	Rig and furrow	
299	370823.8	771372.2	Rig and	
			furrow?	
300	370825.5	771374	Drain	
301	370827.7	771376.5	Drain	
302	370832.6	771382.2	Rig and	
			furrow?	
303	370841.9	771393.1	Rig and	

furrow?

Trench 14

GPS NE end: 370822,771410 SW end: 370721,771291

Orientation: NE/SW Length: 157m Width: 2.0m

Depth above natural: 300-350mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

Features

No	Easting	Northing	Feature	Comment
304	370724.6	771295.5	Stone drain	
305	370726	771297.1	Stone drain	
306	370752.9	771329	Drain	
307	370765.6	771344	Drain	
308	370771.1	771349.8	Drain	
309	370775.7	771355.1	Rig and furrow	Very ploughed out
			?	
310	370778.8	771358.8	Drain	
311	370785.4	771366.9	Rig and furrow?	Very ploughed out
312	370788.3	771370.3	Drain	
313	370810.5	771396.7	Rig and furrow	Very ploughed out
			?	
314	370817.2	771405.1	Stone drain	

Trench 15

GPS NE end: 370803,771419 SW end: 370721,771318

Orientation: NE/SW Length: 130m Width: 2.0m

Depth above natural: 300-500mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

<u>Features</u>

No	Easting	Northing	Feature	Comment
315	370722.2	771320	Drain	
316	370738.5	771340.9	Drain	
317	370739.8	771342.9	Drain	
318	370758	771365	Drain	
319	370763.2	771371.5	Drain	
320	370766.1	771375	Stone drain	
321	370791.7	771405.9	Drain	
322	370796.5	771411.9	Drain	

Trench 16

GPS NE end: 370768,771421 SW end: 370734,771379

Orientation: NE/SW Length: 54m Width: 2.0m

Depth above natural: 400mm

Stratigranhy Tangail avar rad gritty alay natural Faaturas anly visible out into natural

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural. (Illus 10).

Features

No	Easting	Northing	Feature	Comment
323	370737.5	771382.6	Drain	
324	370742.6	771389.4	Drain	
325	370752.5	771400.4	Drain	
326	370756.8	771405.9	Drain	



Illus 10 Trench 16 looking SW

Trench 17

GPS NW end: 370666,771293 SE end: 370812,771153

Orientation: NW/SE Length: 200m Width: 2.0m

Depth above natural: 300mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

<u>Features</u>

No	Easting	Northing	Feature	Comment
327	370800.3	771163.9	Drain	
328	370798.5	771166.9	Drain	WNW/ESE c 6m along trench
329	370788.1	771177.5	Drain	
330	370785.6	771179.8	Drain	
331	370782.2	771183.1	Stone drain	Possible furrow
332	370775.6	771189.6	Drain	Possible furrow
333	370770.7	771194.4	Drain	
334	370769.2	771195.9	Drain	Possible rig and furrow
335	370763.9	771201	Stone drain	NNW/SSE
336	370762.9	771202	Rig and furrow	NE/SW
337	370755.7	771208.8	Rig and furrow	NE/SW
338	370749.9	771214.2	Rig and furrow	NE/SW
339	370747.9	771216.9	Drain	
340	370745.9	771218.7	Rig and furrow	
343	370737.6	771225.9	Stone drain	Along S edge of trench
344	370735.6	771228.6	Rig and furrow	Almost ploughed out
345	370726.9	771237.1	Stone drain	NW/SE along trench c8m
346	370721.6	771243.5	Drain	NW/SE along trench c22m
347	370700.5	771261.7	Disturbance	Modern
348	370696.4	771266.6	Cut across	Modern
			trench	
349	370685.3		Sewer trench	
350	370682.4		Sewer trench?	
351	370676.4		Stone drain	C16m along trench
352	370668.1	771291.8	Stone drain	

Trench 18

GPS NW end: 370645,771280 SE end: 370778,771160

Orientation: NW/SE Length: 179m Width: 2.0m

Depth above natural: 350mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

No	Easting	Northing	Feature	Comment
353	370661	771266.5	Drain	NW/SE c5m along trench
354	370677	771250.6	Stone drain	NW/SE 21m along trench
355	370690.8	771239.3	Sewer trench	
356	370695.4	771234.6	Sewer trench?	
357	370697.6	771232.9	Drain	
358	370713.2	771218.2	Drain	
359	370732.1	771201	Rig and furrow	
360	370738.1	771196.8	Rig and furrow	
361	370744.4	771191	Rig and furrow	
362	370749.2	771186.7	Drain	
363	370751.3	771184.9	Rig and furrow	
364	370758.5	771178.1	Rig and furrow	

365	370764.2	771173 Drain
366	370765.2	771172 Rig and furrow
367	370769.1	771168.6 Drain
368	370772.2	771166.1 Rig and furrow

GPS NW end: 370623,371251 SE end: 370693,771177

Orientation: NW/SE Length: 103m Width: 2.0m

Depth above natural: 350mm

Stratigraphy: Topsoil over red gritty clay natural. Features only visible cut into natural.

Features

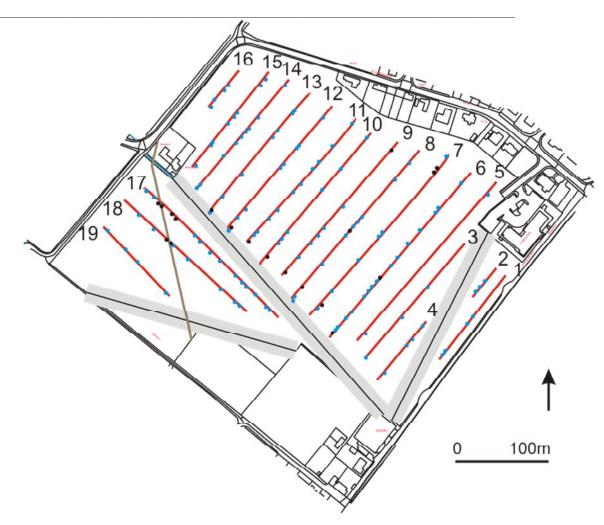
No	Easting	Northing	Feature	Comment
369	370690.1	771182.7	Stone drain	NW/SE along trench c8m
370	370659.3	771215.6	Stone drain	NW/SE along trench c14m
371	370646.4	771228.6	Stone drain	
372	370627.1	771248.7	Stone drain	

6 The Finds

There were no finds apart from small quantities of L 19th and E 20th-century china and glass which would have been incorporated into midden material spread on the fields. These were, not surprisingly more frequent near the backs of the 19th-century buildings at Blackiemuir farm and cottages, West Muir and Burnside. Not retained.

7 Discussion

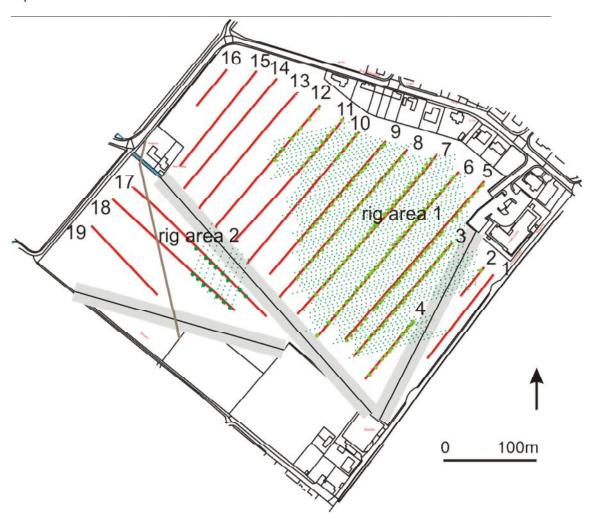
The large number of drains (Illus 11) is indicative of the efforts to drain the area from at least the early 19th century. The place names with 'muir' suggest this had been poor, possibly boggy ground. In a number of cases there were drains cut across the earlier rig and furrow.



Illus 11 Plan of modern drainage (blue) and other features (black). OS map reproduced Crown Copyright. Licence 100041040

Rig and furrow was clearly found in two areas (Illus 12, 13). In Area 1 (trenches 2-12) the furrows were 2.2-2.8m width with depths from the present surface to the base of the furrow of up to 550-600mm. The fill was a lighter, greyer colour than the topsoil and tended to be slightly stony. In this area the rigs were c 3.5-4m apart and orientated between 70° and 80° E of N.

In rig Area 2 the rigs were orientated c 20° E of N and appeared to be wider spaced. The difference of orientation appears to coincide with the NW/SE boundary running SE from near West Muir which is shown on maps from the 18thC onwards (Illus 2-5). The rigs may therefore represent 18th century cultivation.



Illus 12 Plan of rig and furrow. Dotted lines show orientation and known extent. OS map reproduced Crown Copyright. Licence 100041040



Illus 13 Trench 5 looking N towards Blackiemuir Avenue. Furrows of rig and furrow show as darks bands across trench. Modern plough lines visible along the trench

•

There was no evidence of any prehistoric or medieval activity in any of the evaluation trenches. Features such as the stone drains and the later clay drains emphasize the improvement of the land from the late 18th/early 19th century onwards. In many areas, the topsoil was so thin that modern plough marks were visible on the surface of the natural clay.

Impacts and Mitigations

8.1 <u>Impacts</u> There were no finds and no evidence of surviving archaeology other than post-medieval rig and furrow.

8.2 <u>Mitigations</u>

- (i) On the basis of the evaluation there is no perceived need for any further archaeological investigation in the area.
- (ii) The lack of surviving archaeology within the evaluation area does not preclude the possibility of chance finds or archaeological discoveries outwith the evaluation trenches. Should such chance finds occur, then the Archaeology Service, Aberdeenshire Council, or Murray Archaeological Services Ltd, must be informed immediately so that an appropriate archaeological response can be formulated and agreed by all parties concerned.

Appendices

Appendix 1: Catalogue of digital photographic record

Digital frame number	Content
1-5	Looking S along Trench 3. Furrows of rig and furrow marked by red
	flags
6	Looking SW from Trench 3
7	Looking E from Trench 3 with railway to LHS
8-12	Trench 5 showing furrows of rig and furrow
13-14	Trench 16, looking S with West Muir behind
15	Looking S from Trench 16
16-18	Looking E from Trench 16 (Health Centre in background)
19	Looking S from Trench 16
20-22	Looking E from Trench 16
23-24	Looking SE from Trench 16