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## EDC 9: Craigdhu Burn, Bearsden

**Grid reference:** [NS 54838 73404]

**Site type:** Natural exposure

**Site ownership:** Not known

**Current use:** Urban

**Field surveyor:** Sarah Arkley & Luis Albornoz-Parra

**Current geological designations:** None

**Date visited:** 6th March 2009

### Site map

(Figure 9) Craigdhu Burn Location Map

### Summary description

Geological exposures along a tributary of the Craigdhu Burn no longer exist. The burn is now piped underground and exposures have been covered.

The geological map records exposures through the sedimentary strata of the Limestone Coal Formation which contained fossils of the brachiopod 'Lingula' (a marine shell). But no exposures of bedrock are now visible. Where the burn is flowing on the surface to E and W of the recorded exposures, it cuts through glacial till, no bedrock was found.

A second recorded bedrock exposure (on the geological map) describes a 10" coal seam, possibly the Kilsyth Coking Coal, about 60m SE (downstream) of the confluence with the Craigdhu Burn. However, the riverbank where the section is thought to exist is very degraded and vegetated.

Farther west of the recorded exposures, a small burn joins the tributary, the water is very iron-rich and forms deposits on pebbles in the base of the burn - ?mine water.

### EDC 9: Stratigraphy and rock types

**Age: Upper Carboniferous Formation: Limestone Coal Formation**

**Rock type: Sedimentary Rock Cycles of the Clackmannan Group Type**

### Assessment of site value

#### Access and safety

#### Aspect/Description

**Road access and parking** Street parking in the housing estate to the south of the site

**Safety of access** Public footpath along course of the burn, housing to the south of the burn, farmland to the north. Dense shrubs along course of burn

**Safety of exposure** Beware of thorny shrubs if looking for any remaining outcrops

**Permission to visit** No permission sought

**Current condition** No geology sections exist anymore – burn is now piped underground

**Current conflicting activities** 'Improved' water course management

**Restricting conditions** Concrete pipe and soil

**Nature of exposure** Stream sections were previously recorded

## **Culture, heritage & economic**

**Historic, archaeological & literary associations** None known. Rating: 0.

**Aesthetic landscape** Located along boundary between housing estate and farmland. Rating: 2.

**History of earth sciences** None known. Rating: 0.

**Economic geology** None recorded. Rating: 0.

## **EDC 9: Geoscientific merit**

### **EDC 9: Craigdhu Burn, Bearsden. Geoscientific merit.**

**Total Geoscientific merit score. Rating: 0.**

## **Current site value**

**Community** Frequent use by local residents. Rating: 10

**Education** Site was chosen for it's exposure of fossil shells – these should still exist under there. Rating:2.

## **Fragility and potential use of the site**

**Fragility** None

**Potential use** None

## **Geodiversity value**

Unfortunately the exposures displaying Carboniferous fossils for which this site was chosen are no longer visible. But this site has been included as an example of what could happen to a number of other good sites displaying East Dunbartonshire's rich geodiversity if there is not appropriate protection in place. Rating: 0.

## **Photographs**

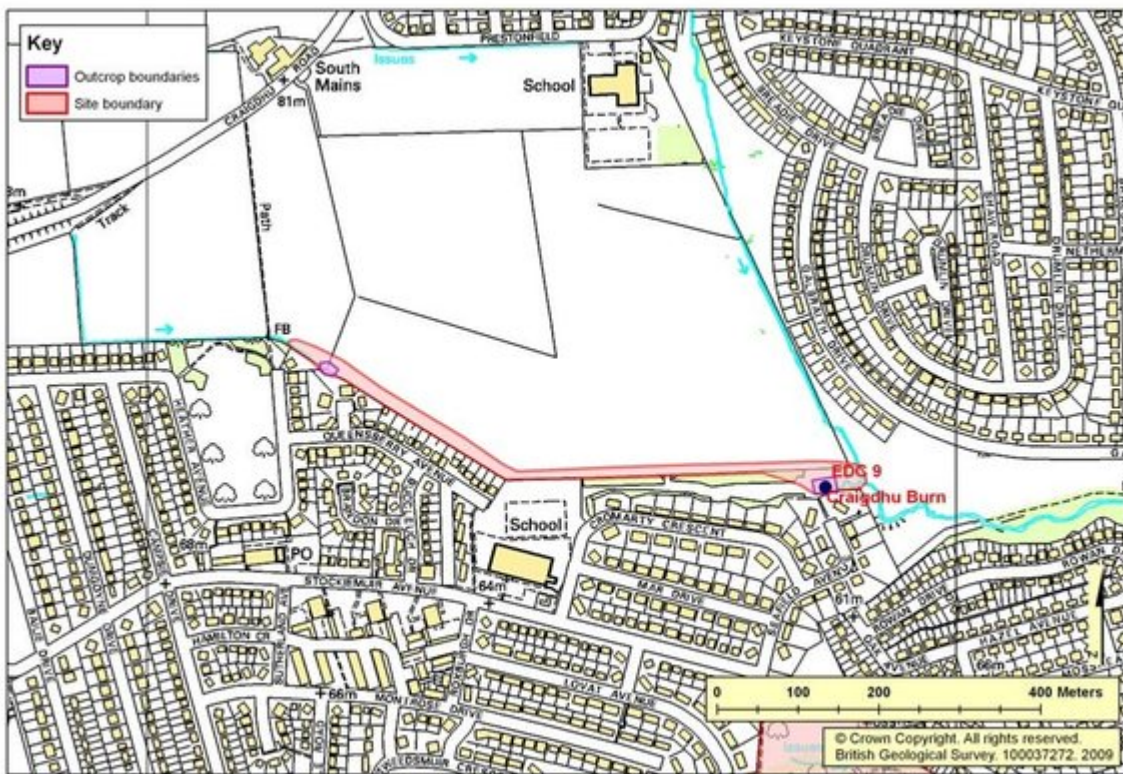
(Photo 37) Craigdhu Burn channelled underground. Looking SE.

(Photo 38) Craigdhu Burn re-emerging. Looking WSW.

(Photo 39) View W along the course of Craigdhu Burn which is now piped underground. Previous geological maps have recorded exposures of sedimentary rocks belonging to the Limestone Coal Formation containing 'Lingula' shell fossils,

but these have now been landscaped and lost.

**Bibliography**



(Figure 9) Craigdhu Burn location map.

| GeoScientific Merit                  | Rarity | Quality | Literature/<br>Collections | 1st                      |
|--------------------------------------|--------|---------|----------------------------|--------------------------|
| Litho Stratigraphy                   | 0      | 0       | 0                          | <input type="checkbox"/> |
| Sedimentology                        | 0      | 0       | 0                          | <input type="checkbox"/> |
| Igneous/Mineral/ Metamorphic Geology | 0      | 0       | 0                          | <input type="checkbox"/> |
| Structural Geology                   | 0      | 0       | 0                          | <input type="checkbox"/> |
| Palaeontology                        | 0      | 0       | 0                          | <input type="checkbox"/> |
| Geomorphology                        | 0      | 0       | 0                          | <input type="checkbox"/> |

EDC 9: Craigdhu Burn, Bearsden. Geoscientific merit.



*(Photo 37) Craigdhu Burn channelled underground. Looking SE.*





*(Photo 38) Craigdhu Burn re-emerging. Looking WSW.*



*(Photo 39) View W along the course of Craigdhu Burn which is now piped underground. Previous geological maps have recorded exposures of sedimentary rocks belonging to the Limestone Coal Formation containing 'Lingula' shell fossils, but these have now been landscaped and lost.*