

TIER 2

ENVIRONMENTAL RISK ASSESSMENT

APPENDIX G

TIER 1 RISK ASSESSMENT

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TIER 1 RISK ASSESSMENT

FOR

FORMER COOTEHILL HISTORIC LANDFILL

AT

POTTLEBOY

COOTEHILL

CO. CAVAN

Prepared By:

Waste Management Section
Cavan County Council
Farnham Street
Cavan
Co. Cavan



Historic Unlicensed Sites – Site Registration

ID Number	Council No. 256 EPA No. S22-02579
Site name	Cootehill Dumping Ground
Waste category	Local Authority
Townland	Pottleboy
Waste activity	Disposal
Principal waste type	Municipal
Additional waste type	Municipal
Estimated waste quantity	
Verification Method	Interviews with overseers
Date opened	30/08/1967
Date closed	19/04/1985
Owner of waste	Gavan County Council
Map	Available on file
Information Sources	Council file No. 256 / 256 B / 256 C Land registry Sandra Smith – Interviews with overseers
Date Checked	16/06/2009

Walkover Survey Checklist – Cootehill Dumping Ground

Walkover Survey Checklist		
Information	Checked	Comment (including distance from site boundary)
1. What is the current land use?	√	The land is currently unutilized at present
2. What are the neighbouring land uses?	√	Western boundary – Crèche development. Eastern boundary – Council housing estate. North western boundary – Council housing estate. Southern & Northern boundary – Agricultural.
3. What is the size of the site?	√	Approximately ½ acre.
4. What is the topography?	√	Site elevated towards the centre with mound steeply sloping towards boundaries.
5. Are there potential receptors (if yes, give details)?	√	Piped watercourse on western boundary (R1- immediate). Watercourse on north eastern boundary (R5). Crèche on western boundary (R3 – immediate). Caravans on southern boundary (R7 – immediate). Council estates on eastern and north western boundary (R2 & R4). Possible well on north eastern boundary (R6 – immediate)
Houses	√	Council estate on eastern boundary approximately 20 meters from site. Council estate on north western boundary approximately 60 meters from site.
Surface water features (if yes, distance and direction of flow)	√	Watercourse on western boundary (immediate) flows from west to east and discharges to the annalee river system.
Any wetland or protected Areas	√	Wetlands – not observed within 250 meters. SPA & SPC – not observed on National Parks and Wildlife services GIS website.
Public Water Supplies	√	Cootehill Public Water Supply (PWS).

Private Wells	√	6" inch maps detail well on north eastern boundary (immediate) however said well could be piped into watercourse on western boundary.
Services	√	Public lighting, sewerage and electrical services.
Other buildings	√	N/A
Other	√	N/A
6. Are there any potential sources of contamination (if yes, give details)?	√	None encountered during site inspection.
Surface waste (if yes, what type?)	√	Main body of site is covered with soil and vegetation – waste observed on western boundary protruding beneath soil and vegetation.
Surface ponding of leachate	√	None evident.
Landfill gas odours	√	None detected – downwind of site (S.E. Breeze blowing during time of inspection).
7. Are there any outfalls to surface water? (If yes, are there discharges and what is the nature of the discharge?)	√	No obvious discharges to surface waters – piped watercourse on western boundary.
8. Are there any signs of impact on the environment? (If yes, take photographic evidence)	√	None evident.
Vegetation die off, bare ground	√	None evident.
Leachate seepages	√	None evident.
Odours	√	None evident.
Litter	√	None evident.
Gas bubbling through water	√	None evident (watercourse on north eastern boundary inspected).
Signs of settlement,	√	None evident.
subsidence, water logged areas	√	None evident.
Drainage or hydraulic issues	√	None evident.

Downstream water quality appears poorer than upstream water quality	√	Unable to determine as watercourse on western boundary piped. However, watercourse on north eastern boundary was inspected with no visible deterioration observed.
9. Are there any indications of remedial measures? (Provide details)	√	Covered with clay.
Capping	√	As above.
Landfill gas collection	√	None evident.
Leachate collection	√	None evident.
10. Describe fences and security features (if any)	√	Hedgerow on western boundary and nothing evident on all other boundaries.
Any other relevant information?		N/A
Health & Safety	√	The site is easily accessible to the public. No land slippage, depressions or accumulations of water on the waste body.
Remediation	√	The site is overgrown with grass, trees and shrubs. Waste observed below the waste body. The importation of soil and the covering of exposed waste may be required.
<p>General Comments</p> <p>During the site inspection there was no obvious leachate or gas problems encountered. The site from a visual perspective has assimilated into the surrounding environs.</p>		

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Cavan County Council

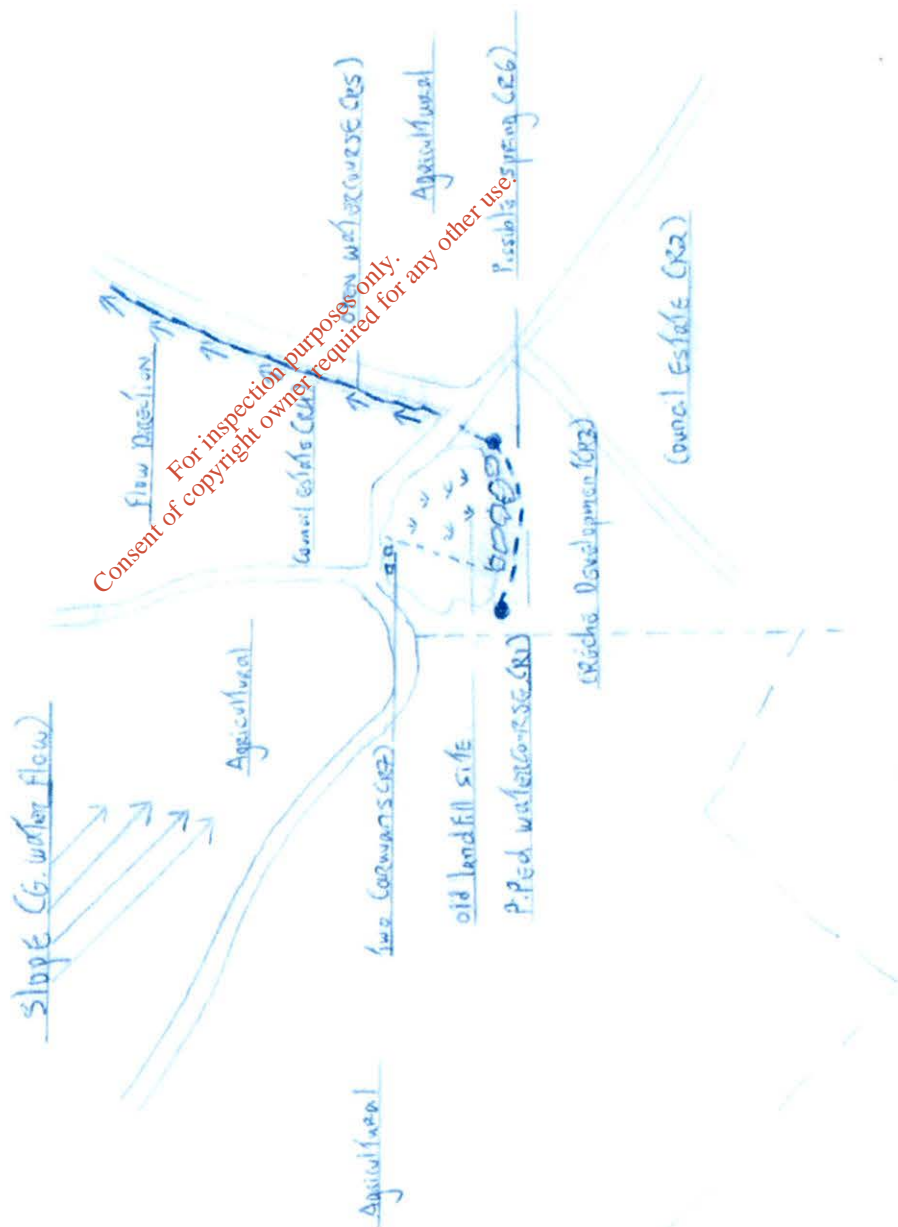
Survey Checklist

Inspection date _____

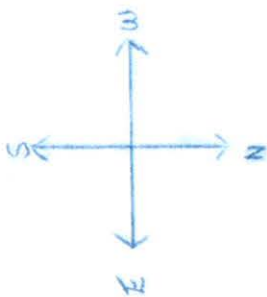
Signed _____

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Site Plan



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GPS: 260,669 313 5144

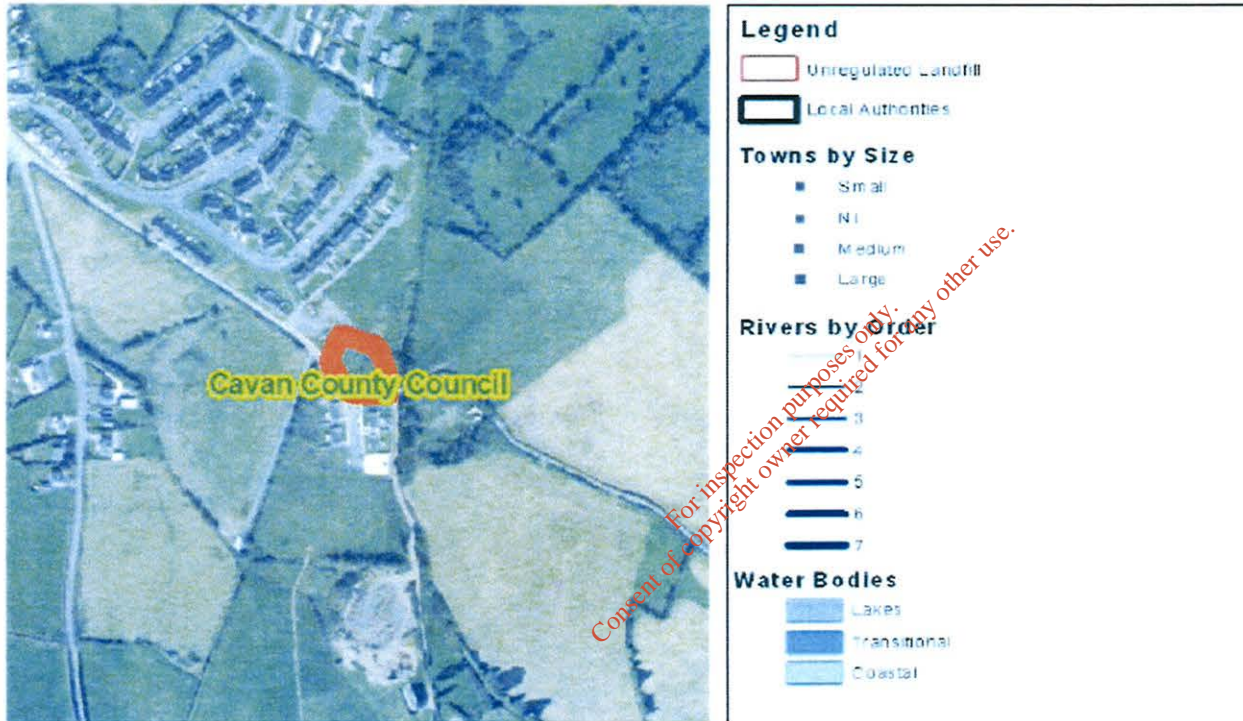
E1/R6 ~ Receptors



Risk ranking report for Cootehill dumping ground - Cavan
County Council (S22-02579)

Date: 25/09/2009

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Grid reference of the centre of the site: 260672E, 313544N

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Table	Points available	Rationale	SPRLinkage	Linkage Score	Norm Score
1a	5.00	EITHER (Type: Industrial, Area <=1 Ha) OR (Type: Municipal, Area <=1 Ha)	SPR1	60.00	20.00
1b	5.00	EITHER (Type: Industrial, Area > 1 <= 5 Ha) OR (Type: Municipal, Area <=1 Ha)	SPR2	0.00	0.00
2a	3.00	Extreme Vulnerability	SPR3	60.00	25.00
2b	1.00	Poorly Productive Bedrock Groundwater Bodies (LI, PI, Pu)	SPR4	0.00	0.00
2c	0.00	No direct connection	SPR5	20.00	5.00
2d	3.00	Sand and gravel, made ground, urban, karst	SPR6	0.00	0.00
2e	0.00	No buildings, structures or other enclosed spaces above the waste body.	SPR7	60.00	25.00
3a	3.00	On or within 50m of the waste body	SPR8	0.00	0.00
3b	0.00	Undesignated sites greater than 250m of the waste body.	SPR9	0.00	0.00
3c	1.00	Poor aquifers (PI, Pu)	SPR10	75.00	50.00
3d	0.00	Greater than 1km (No Karst Aquifer)	SPR11	0.00	0.00
3e	3.00	Within 50 m of site boundary			
3f	5.00	On Site or within 50m of site boundary			

Risk Classification: B: Moderate Risk

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Site Summary

Facility Description

The site encompasses an area of approximately 0.2 hectares in the Townland of Pottleboy outside Cootehill town. The site is currently unutilized with unrestricted public access.

Receiving Environments

The site has a piped drainage ditch on the western boundary. The old 6" maps also detail the presence of a well on the western boundary. The site is enveloped by a Council estate on the eastern aspect and a creche on the western aspect.

Known Impacts

There are currently no known impacts on the surrounding environments. Further investigations are required to validate same.

Emissions Observed

No emissions were evident during the site inspection. Further investigations are required to validate same.

Remediation Measures

The site has been capped with soil. Small amount of waste observed protruding from below the waste body.

Technical Requirements

The site is unlined with no leachate or gas collection system.

Treatment Methods

No treatment of leachate or gas on site (if arising from the site). Further investigations are required to establish if there are leachate or gas discharges.

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