

Expenditure Plan for Parrys Quarry Landfill

PARRYS QUARRY LANDFILL

Environmental Issue	Description of Potential Works	Quantity	Rationale / Comment	Unit	Rate	Cost (£)	Probability (%)	Probable Cost (£)	Period of Aftercare (Years)	Anticipated Total Cost (£)
Groundwater									1 to 3	
	Monitoring on Completion of Landfilling:									
	Annually - includes reporting, monitoring and analysis	4	4 boreholes once per annum	No.	£200	£800	100	£800	£2,400	£2,400
	Quarterly Monthly - includes reporting, monitoring and	4	4 borehole two times per year	No.	£35	£245	100	£490	£1,470	£1,470
	Six monthly-includes reporting, monitoring and analysis	4	4 borehole two times per year	No.	£250	£1,000	100	£2,000	£6,000	£6,000
	Monthly	0		No.	£42	£0	0	£0	£0	£0
	Provision of replacement groundwater level/quality monitoring boreholes compared to present.	1	Over the aftercare period	No.	£1,000	£1,000	100	£1,000	£1,000	£1,000
	Supervision and reporting installation works.	1		-	-	£1,500	100	£1,500	£1,500	£1,500
Surface Water	Monitoring on Completion of Landfilling:									
	Annually - included with the swmonitoring	0		No.	£106	£0	100	£0	£0	£0
	Six Monthly - included with the sw monitoring	0		No.	£0	£0	100	£0	£0	£0
	Quarterly - included with the surface water monitoring	3		No.	£54	£162	100	£648	£1,944	£1,944
	Provision of surface water ditchcourses/collection facilities around the perimeter of the phase.	0	Covered under works permit	m	£0	£0	80	£0	£0	£0
	Landfill Gas	Monitoring on Completion of Landfilling:								
Monthly monitoring		4	50 Internal and 14 external monitoring points	No.	£250	£1,000	100	£1,000	£3,000	£3,000
Landfil Gas	Annual monitoring flux box test not required as inert landfill	0			£0	£0	100	£0	£0	£0
Capping	Clay Cap	0	Area of phase/landfill	m²	£0	£0	100	£0	N/A	£0
	Supervision of the capping works.	0	Area of phase/landfill	-	£0	£0	100	£0	N/A	£0
Restoration of the Landfill	Provision and installation of field drainage	0	Area of phase/landfill	0	£0	£0	50	£0	N/A	£0
	Sourcing and supply of top soil	1	Area of phase/landfill	m3	£1.50		100			£0
	Grass seeding	0	Area of phase/landfill	m²	£0.05	£0	95	£0	N/A	£0
	Grass cutting/maintenance	0	Area of phase/landfill	m²	£0.1	£0	95	£0	£0	£0
	Landscape planting (hedges only, not shrubs/plants)	0	Allowance	m	£1.2	£0	90	£0	N/A	£0
	Fencing (post and 2 strand barbed wire)	1	Perimeter boundary	m	£0	£0	1000	£0	N/A	£0
Miscellaneous	Survey for settlement assessment, including reporting.	1	Drone update		£1,500	£1,500	100	£1,500	£4,500	£4,500
	General maintenance of restoration and capping	1	Area of phase/landfill	rate	£550	£100	100	£550	£550	£550
	Site security fencing	1	Estimated length of repair	rate	£2.5	£100	100	£1,250	£1,250	£1,250
	Contingency Specified Event	1	Borehole damage	rate	£1,500.0	£1,500	100	£1,500	£1,500	
	Treatment of blocked surface water ditches	1	2 days work	rate	£600	£600	100	£600	£600	£600
	Annual report	1	Letter report			£500	100	£500	£1,500	£1,500
(for the whole landfill, <u>not</u> per phase)	Completion Application Report	1				£2,500			£2,500	£2,500
	Leachate build up (failure of the collection system)		Install leachate wells and pumps and recirculate leachate			£0	0	£0	N/A	£0
	Polluted surface water via leachate breakouts		Investigate and repair cap			£0	0	£0	N/A	£0
	Erosion of part of the cap and restoration soils (20m x 20m)		Investigate and repair			£0	0	£0	N/A	£0
							£12,507			£29,714
TOTAL										

Notes: No specified events have been raised in the Risk Assessments

£29,714

- 1) The above costs are based on 2020 prices
- 2) Survey costs based on fixed trig points set up on site and full annual survey
- 3) The "Probable Cost" is based on the likelihood of a particular item being required in the permit and weignted against all of the submitted risk assessments
- 4)Leachate monitoring is not required under the Permit
- 5) The costs for "Period of Aftercare" are set at three years for inert landfill sites.Site is to be left as a development platform for developers to use for housing and employment
- 6)Surface water monitoring is required post closure but only at discharge point SW1 as SW2 discharge to cease on completion of mineral workings
- 7)The costs cover the exterior boreholes for groundwater and internal monitoring points
- 8) Costs provided for the clay capping works not required as this is an inert landfill.
- 9) Topsoil sourced from on site sources, not purchased and imported to site. Top soil from current stockpikles available as required under planning.
- 10) Annual report is simple letter form as approved with other NRW offices based on computer spreadsheets data
- 11)Cost of fence maintenance considered with 500 metres of repairs over 3 year period at £2.50/ metre as most of site is three strands of barbed wire
- 12)At restoration phase surface water discharge will be natural runoff with no consent
- 13) Costs Line 13 supervision of internal monitoring point repair assuming two days and Line 15 is for replacement boreholes inclusive of preparation of CQA Plan
- Quarterly discharge