

RETFORD CIRCULAR ECONOMY PROJECT

TECHNICAL APPENDIX 12.1: CONSTRUCTION AND OPERATIONAL PLANT LIST

FEBRUARY 2023





Table 12.1: Construction Plant List

Activity	Location	Plant Description	BS 5288 Reference	Activity L _{Aeq} @ 10 m	Number of Plant	Start Date	End Date	Percentage Ontime (Mon-Fri, 08:00 – 18:00)
	Haul Road and	Tracked Excavator	C.5.18	80	2	Month 1	Month 3	50
Aggregate and		Dozer	C.5.13	82	2			50
concrete for roadways and hard surfaces	Conveyor Route	Vibratory Roller	C.5.20	75	1			50
and nard surfaces	Route	Asphalt Paver (+tipper lorry)	C.5.31	77	1			25
	Main Processing Site	Cutters, drills and small tools	C.4.73	84	4	Month 1	Month 3	50
Conveyor sections and		Mobile Crane	C.3.29	70	1			25
plant		Water Bowser	C.4.88	68	1			10
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
	Main Processing Site	Cutters, drills and small tools	C.4.73	84	4	Month 1	Month 1	50
CHP Plant		Mobile Crane	C.3.29	70	1			25
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
Gas reception infrastructure – for road tanker delivery	Main Processing Site	Cutters, drills and small tools	C.4.73	84	4	Month 1	Month 1	50
		Mobile Crane	C.3.29	70	1			25
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
Gas main infrastructure	Main Processing Site	Cutters, drills and small tools	C.4.73	84	4	Month 7	Month 12	50



		Mobile Crane	C.3.29	70	1			25
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day]		25
Drying Plant	Main Processing Site	Cutters, drills and small tools	C.4.73	84	4	Month 1	Month 24	50
		Mobile Crane	C.3.29	70	1			25
	Main Processing Site	Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
	Main Processing Site	Cutters, drills and small tools	C.4.73	84	4	Month 1	Month 24	50
Silos		Mobile Crane	C.3.29	70	1			25
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
	Main Processing Site	Cutters, drills and small tools	C.4.73	84	4	Month 1	Month 3	50
Fencing and gating, and infrastructure for		Mobile Crane	C.3.29	70	1			25
site security		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
	Main Processing Site	Hand tools	C.4.73	84	5	Month 1	Month 12	25
		Tracked Excavator	C.5.18	80	1			50
		Dozer	C.5.13	82	1			50
Offices, welfare, toilets, labs and canteen		Concrete mixer truck	C.4.20	80	2			10
iabs and canteen		Mobile Crane	C.3.29	70	1			25
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
Consil we want		Tracked Excavator	C.2.14	79	2	Marth 4		25
Spoil removal		Dumpers	C.4.4	76	1	Month 1 Month 3	25	

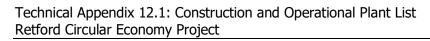


		Tipper Lorries	C.8.20	79	5/day			25
Storage building - trial	Main Processing Site	Hand tools	C.4.73	84	5	Month 1	Month 1	25
		Tracked Excavator	C.5.18	80	1			50
		Dozer	C.5.13	82	1			50
		Concrete mixer truck	C.4.20	80	2			10
		Mobile Crane	C.3.29	70	1			25
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
	Main Processing Site	Hand tools	C.4.73	84	5	Month 7	Month 12	25
		Tracked Excavator	C.5.18	80	1			50
		Dozer	C.5.13	82	1			50
Storage building - Main		Concrete mixer truck	C.4.20	80	2			10
		Mobile Crane	C.3.29	70	1			25
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25
Other works - contingency	Whole Site	Hand tools	C.4.73	84	5	Month 1 M	Month 3	25
		Fork Lift Truck	C.4.13	71	1			25
		Tipper Lorries	C.8.20	79	5/day			25



Table 12.2: Operational Plant List

Activity	Plant Description	BS 5288 Reference	Activity L _{Aeq} @ 10 m	Number of Plant	Percentage On-time (Mon-Fri, 07:00 – 19:00)	Percentage On-time (Saturdays, 07:00 - 13:00)
	Cat 966 Loader	manufacturers data	81	1	75	75
Processing	Mobile Screen- Finlay 683	manufacturers data	80	1	90	90
Areas 1	Conveyor	manufacturers data	66	1	100	100
	Tipper Lorries	C.8.20	79	60/day		
	Cat 966 Loader	manufacturers data	81	1	75	75
Processing	Mobile Screen	manufacturers data	80	1	90	90
Area 2	Conveyor	manufacturers data	66	1	100	100
	Tipper Lorries	C.8.20	79	60/day		
	Cat 966 Loader	manufacturers data	81	1	75	75
Processing	Mobile Screen	manufacturers data	80	1	90	90
Area 3	Conveyor	manufacturers data	66	1	100	100
	Tipper Lorries	C.8.20	79	60/day		
	CHP Installation	manufacturers data	65	1	100	100
	Drying Modules (All Units)	manufacturers data	65 (All units fitted with standard acoustic enclosure)	10	100	100
Main Processing	Cyclones	manufacturers data	< 35 dB(A)	n/a		
Area	Silos	manufacturers data	< 35 dB(A)	n/a		
	Material Storage Building	n/a	Internal Noise Levels to not exceed 80 dB(A)	n/a	100	100
	Small excavator (13T)	BS 5228-1:2009 Table C.4:64	75	1	50	50





Site Establishment	Tracked Excavator	C.5.18	80	2	50	50
	Dozer	C.5.13	82	1	50	50
	Mobile Crane	C.3.29	70	1	25	25
Latabilarinient	Cat 966 Loader	manufacturers data	81	1	75	75
	Tipper Lorries	C.8.20	79	60/day		
D ();	Dozer	C.5.13	82	3	90	90
Restoration	Cat 966 Loader	manufacturers data	81	1	75	75
	Tracked Excavator	C.5.18	80	2	50	50
	Dozer	C.5.13	82	1	50	50
Excavation	Tipper Lorries	C.8.20	79	60/day	80	80
	Cat 966 Loader	manufacturers data	81	1	75	75
	Tracked Excavator	C.5.18	80	2	50	50
Soakaway	Dozer	C.5.13	82	1	50	50
Ponds Construction	Cat 966 Loader	manufacturers data	81	1	75	75
	Tipper Lorries	C.8.20	79	60/day		
Filter Ponds Construction	Tracked Excavator	C.5.18	80	2	50	50
	Dozer	C.5.13	82	1	50	50
	Cat 966 Loader	manufacturers data	81	1	75	75
	Tipper Lorries	C.8.20	79	60/day		