

Document Title:	Environment Aspects and Impacts Form	Mandatory
		Guidance
		Project Specific

Site:	Lillyhall LFS	Date:	30-May-2018
Environmental Aspects Lead Assessor:		Next Review Date:	29-May-2019
Environmental Assessment Team:		Assessment Number	v.5 2018

Register of Significant Aspects			
Activity	Aspect	R / O	Further Actions Identified
Landfill gas emissions (E)	Emergency – Prolonged failure of containment or extraction	R	
Spillage/leak of leachate (E)	Leachate Management, Leachate Storage, Landfill	R	
Consumption of electricity	Leachate Management, Welfare Facilities / Office, GUP, Laboratory	R	Ongoing monitoring & tracking of usage
Waste production (incl. Haz-waste)	Office, Welfare cabins, Laboratory, Vehicle maintenance area, Leachate	R	Reduce where possible
Waste disposal	Leachate, Waste oils, Office waste	R	

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Emissions to Air											
Vehicle exhaust emissions	Vehicle & Plant movements	N	Local air pollution, global air pollution, global warming, harm to human health	<p>R – Increased environmental impact.</p> <p>O – Maintenance to ensure optimum efficiency</p> <p>O – Replacement with a more efficient model where practicably possible</p>	Switch off plant/vehicles when not in use, maintenance schedules, daily plant checks, fuel consumption / usage hours records.	Road traffic (vehicle emissions) (England) Regulations 2002; Clean air act 1993;	3	2	2	1	8
Landfill gas emissions	Waste Decomposition	NN	Local air pollution, global air pollution, global warming, harm to human health, odour nuisance - loss of local amenity	<p>R – Increased environmental impact.</p> <p>O – Capping of open waste when up to planning height.</p> <p>O- ensure the engine utilised at site is being used to its optimum capacity to ensure efficiency.</p>	LFG Risk Assessment, LFG management plan (v.4, Dec-2016), Gas extraction system, GUP/Flare, Engineering/capping, Monitoring, COSHH	Dangerous Substances and Explosive Atmosphere Regulations 2002; Environmental permitting (England and Wales) regulations 2007 & 2010; Clean air act 1993;	2	1	5	2	10

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Landfill gas emissions	Waste Decomposition / Failure of containment or extraction	E	Local air pollution, global air pollution, global warming, harm to human health, odour nuisance -loss of local amenity	Above threshold royalty for FCC, ensure optimum infrastructure access for Infinis to ensure a positive financial gain for site.	LFG Risk Assessment, LFG management plan (v.4, Dec-2016), Gas extraction system, GUP/Flare, engineering/capping, Monitoring, COSHH	Dangerous Substances and Explosive Atmosphere Regulations 2002; Environmental permitting (England and Wales) regulations 2007 & 2010; Clean air act 1993;	4	4	2	3	13
H2S emissions	Waste Decomposition	NN E	Local air pollution, harm to human health, odour nuisance - loss of local amenity	R – Increased environmental impact. O - Non acceptance of high sulphate producing waste.	Landfill gas management system, Engineering/capping, Monitoring, SSW57 – H2S in LFG, Personal gas alarms, COSHH	Dangerous Substances and Explosive Atmosphere Regulations 2002; Environmental permitting (England and Wales) regulations 2007 & 2010; Clean air act 1993;	3	3	1	3	10
Infinis engine/flare emissions	Gas Utilisation & Power Generation	NN NN	Local air pollution, global air pollution, harm to human health, Electricity Generation	R – Increased environmental impact. O – Generation of electricity for the grid. O- ensure the engine utilised at site is being used to its optimum capacity to ensure efficiency.	Maintenance schedules, Installation checks, Monitoring, Emission limits, LFG management plan (v.4, Dec-2016)	Environmental permitting (England and Wales) regulations 2007 & 2010; Clean air act 1993;	2	2	5	2	11

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Dust	Vehicle and Plant movements, Waste Disposal	NN	Local air pollution, harm to human health, loss of local amenity, dust pollution	O- Procurement of dust suppression systems, bowsers, tractors. Serviced and maintained for fuel efficiency.	Particulate management plan (v.3, 2014), Dust suppression, Wheel Wash, Installation checks, Traffic management plan, SSW 30- Dust minimisation.	Environmental permitting (England and Wales) regulations 2007 & 2010; Environmental Protection Act 1990 Part III (Statutory Nuisance)	2	1	2	1	6
Odour	Waste Disposal, Waste Decomposition, Landfill Gas Management	N	Odour nuisance - loss of local amenity	O- Waste Hierarchy (diversion from landfill). Capital investment for capping works. Procured capping contractors. Infinis SLA obligations	Odour Management Plan (Section L), Landfill gas management system, Engineering, Monitoring, Difficult waste acceptance procedure, Installation checks, Complaints procedure	Environmental permitting (England and Wales) regulations 2007 & 2010; Environmental Protection Act 1990 Part III (Statutory Nuisance)	1	1	2	1	5
Odour	Waste Disposal, Waste Decomposition, Landfill Gas Management	NN	Odour nuisance - loss of local amenity	R – Nuisance to the public R – Adverse publicity. R- EA scores O- Waste Hierarchy (diversion from landfill). Capital investment for capping works. Procured capping contractors. Infinis SLA obligations	Odour Management Plan (Section L), Landfill gas management system, Engineering, Monitoring, Difficult waste acceptance procedure, Installation checks, Complaints procedure	Environmental permitting (England and Wales) regulations 2007 & 2010; Environmental Protection Act 1990 Part III (Statutory Nuisance)	2	2	1	1	6

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Odour	Waste Disposal, Waste Decomposition, Landfill Gas Management	E	Odour nuisance - loss of local amenity	<p>R – Nuisance to the public R – Adverse publicity. R- EA scores</p> <p>O- Waste Hierarchy (diversion from landfill). Capital investment for capping works. Procured capping contractors. Infinis SLA obligations</p>	<p>Odour Management Plan (Section L), Landfill gas management system, Engineering, Odour suppression if required, Monitoring, Difficult waste acceptance procedure, Emergency plan, Installation checks, Complaints procedure, Local Liaison if required</p>	<p>Environmental permitting (England and Wales) regulations 2007 & 2010; Environmental Protection Act 1990 Part III (Statutory Nuisance)</p>	2	3	1	1	7
Smoke emissions from Fire	In Waste Fire, Surface Fire, Other Fires	E	Local air pollution, potential for harm to human health	<p>R – Nuisance to the public R – Adverse publicity. R- EA scores R – Emergency services time</p> <p>O- Water bowsers on site. Staff training in an emergency Waste Hierarchy (diversion from landfill). Capital investment for capping works. Procured capping contractors. Infinis SLA obligations</p>	<p>Maintenance of plant & equipment, LFG Management Plan (v.4, Dec-2016), Waste acceptance procedures, Emergency Plan, Fire MP (Section S)</p>	<p>Clean air act 1993; Environmental permitting (England and Wales) regulations 2007 & 2010;</p>	2	3	1	2	8
Releases to Water											

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Surface water run-off (suspended solids)	Surface Water Management	NN	Local water pollution, harm to aquatic flora and fauna, loss of amenity	O- Slam shut being designed for ditch prior to off-site discharge.	Discharge consents, Monitoring Management Plan (v.7, 2017), Surface water management Plan (Section D), Settlement lagoons (Suspended solids), monitoring, restoration, Engineering	Environmental permitting (England and Wales) regulations 2007 & 2010;	1	2	3	2	8
Flooding	Surface Water Management	E	Local water pollution, harm to aquatic flora and fauna, loss of amenity, impact on sewers	R – Decrease in local water quality – high suspended solids. R – Increased environmental impact O- Procurement of surface water pump suppliers. Design of self-attenuating SW systems.	Discharge consents, Monitoring Management Plan (v.7, 2017), Surface water management Plan (Section D), Settlement lagoons (Suspended solids), monitoring, restoration, Engineering, Emergency Plan	Environmental permitting (England and Wales) regulations 2007 & 2010; Water Industry Act 1991;	3	4	2	1	10
Spillage/leak of chemicals, oils and fuel	Liquid Storage, Vehicle & Plant Movements	NN	Local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health	R – Increased environmental impact. O- Purchase required volumes only.	Bunds, spill trays, spill kits, maintenance schedules, defect/installation checks, COSHH	Environmental permitting (England and Wales) regulations 2007 & 2010; Control of substances hazardous to health reg 2002;	3	2	1	2	8

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Spillage/leak of chemicals, oils and fuel	Liquid Storage, Vehicle & Plant Movements	E	Local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health	R – Increased environmental impact. O- Purchase required volumes only.	Bunds, spill trays, spill kits, maintenance schedules, defect/installations checks, Emergency Plan, Site Management Plan, COSHH	Environmental permitting (England and Wales) regulations 2007 & 2010; Control of substances hazardous to health reg 2002;	4	3	1	2	10
Spillage/leak of leachate	Leachate Management, Leachate Storage, Landfill	NN	Local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health		Leachate Management plan (Section C), bunds, spill trays, spill kits, maintenance schedules, defect/installation/leachate checks, Automated tank & extraction systems, COSHH, HRA, Engineering	Environmental permitting (England and Wales) regulations 2007 & 2010; Control of substances hazardous to health reg 2002;	3	2	2	2	9
Spillage/leak of leachate	Leachate Management, Leachate Storage, Landfill	E	Local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health	R – Increased environmental impact R – CCS scores R – Adverse publicity O- Procurement of additional temporary storage tanks in an emergency.	Leachate Management plan (Section C), bunds, spill trays, spill kits, maintenance schedules, defect/installation/leachate checks, Automated tank & extraction systems, COSHH, HRA, Engineering, Emergency Plan	Environmental permitting (England and Wales) regulations 2007 & 2010; Control of substances hazardous to health reg 2002;	5	4	1	3	13

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Spillage/leak of waste water	Welfare Facilities, Sewer	NN	Local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health		Installation Checks, Maintenance schedule	Environmental permitting (England and Wales) regulations 2007 & 2010; Water Industry Act 1991;	3	1	1	1	6
Spillage/leak of waste water	Welfare Facilities, Sewer	E	Local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health	R – Increase in Environmental impact R – CCS scores O- connected to main sewer with a flow meter on consented discharge	Installation Checks, Maintenance schedule, Emergency Plan	Environmental permitting (England and Wales) regulations 2007 & 2010; Water Industry Act 1991;	3	2	1	1	7
Fire water	Unplanned Fires	E	Local water pollution, harm to aquatic flora and fauna, loss of amenity	R – Contamination of local water courses R – Poor publicity R – Drain on local emergency services O - Use of on-site lagoon stored waters.	Emergency Plan, Interceptor for fire water in the GUP, landfill fire water leachate extraction, fire water run off extraction for the LTP Haz pad / fuel / oil store.	Environmental permitting (England and Wales) regulations 2007 & 2010;	3	3	1	1	8
Releases to Land											

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Spillage/leak of chemicals, oils and fuel	Liquid Storage, Vehicle & Plant Movements	NN	Soil pollution, local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health	O - Purchase required volumes only.	Leachate Management plan, bunds, spill trays, spill kits, maintenance schedules, defect/installation/leachate checks, Automated tank & extraction systems, COSHH, HRA, Engineering, Emergency Plan	Environmental permitting (England and Wales) regulations 2007 & 2010; Control of substances hazardous to health reg 2002;	2	1	1	1	5
Spillage/leak of chemicals, oils and fuel	Liquid Storage, Vehicle & Plant Movements	E	Soil pollution, local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health	R - Increased environmental impact. O- Purchase required volumes only.	Leachate Management plan (Section C), bunds, spill trays, spill kits, maintenance schedules, defect/installation/leachate checks, Automated tank & extraction systems, COSHH, HRA, Engineering, Emergency Plan	Environmental permitting (England and Wales) regulations 2007 & 2010; Control of substances hazardous to health reg 2002;	3	3	1	2	9
Spillage/leak of leachate	Leachate Management, Leachate Storage, Waste Disposal	NN	Soil pollution, local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health		Leachate Management plan (Section C), bunds, spill trays, spill kits, maintenance schedules, defect/installation/leachate checks, Automated tank & extraction systems, COSHH, HRA, Engineering	Environmental permitting (England and Wales) regulations 2007 & 2010; Control of substances hazardous to health reg 2002;	2	2	2	2	8
Spillage/leak of leachate	Leachate Management, Leachate Storage, Waste Disposal	E	Soil pollution, local water pollution, harm to aquatic flora and fauna, loss of amenity, harm to human health		Leachate Management plan (Section C), bunds, spill trays, spill kits, maintenance schedules, defect/installation/leachate checks, Automated tank & extraction systems, COSHH, HRA, Engineering, Emergency Plan	Environmental permitting (England and Wales) regulations 2007 & 2010; Control of substances hazardous to health reg 2002;	3	4	1	3	11

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Litter	Waste Disposal, Site generated litter	NN E	Visual impact, loss of local amenity	R – Nuisance to the local community. R – CCS scores R – Waste contamination off site. O - Procure locally sourced litter pickers through ALS framework agreement.	Engineering, Monitoring, Waste acceptance procedure, Litter Management Plan (Section K), Meteorological Management Plan (Section T) Site closure/waste diversion, Installation Checks, Fencing, Litter picking, Emergency plan	Environmental permitting (England and Wales) regulations 2007 & 2010	2	3	3	1	9
Fly tipping	Unauthorised tipping on site & FCC land	NN	Visual impact, Impact on neighbours, Contamination from uncontrolled waste in uncontrolled location	O - Council contacts, CCTV footage passed to relevant authorities to bring prosecution.	Site Security, Installation checks, Complaints tracking on Safeguard, CCTV monitoring 24/7	Environmental protection act 1990;	2	2	2	1	7
Dirt & Mud	Plant & Vehicle Movements & Weather Conditions	NN NN	Visual impact, Impact on neighbours, Public and private road safety		Traffic management plan, Paved roads where possible, Available stockpile of hardcore, installation checks, Wheel wash, Bowsering/sweeping of roads as required	Environmental permitting (England and Wales) regulations 2007 & 2010; Road Traffic Act;	2	3	2	2	9

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Raw Materials / Natural Resources											
Consumption of water	Welfare Facilities, Office, Laboratory, Site	N	Depletion of natural resources, possible contamination	R – Water resource shortages O- Optimisation of on-site water storage.	Encourage usage reduction, Record water usage monthly on COTC check sheet, CSR reporting, Use of available surface water where appropriate instead of discharging	Water resources act 1991;	2	2	3	1	8
Storage, handling & use of chemicals, oils and fuel	Vehicle & Plant Maintenance, GUP Operations	NN E	Carbon footprint, Vehicle maintenance (emission reduction), Gas utilisation plant	R – Increased environmental impact. O- Purchase required volumes only.	Bunded containers (110%), Installation checks, SSW 19 – Waste oil, COSHH, Delivery/collection procedure, Installation checks, Emergency Plan, Duty of Care	Control of substances hazardous to health regs 2002; Control of pollution (oil storage -England) regs 2001;	3	2	3	2	10
Use of paper / paper products & Stationary products	Office Administration	N	Generation of waste, Carbon footprint, Global Deforestation, Recycling	R – Purchase cost R – Adverse publicity O - National procured agreement for office supplies. Use of electronic SFS	Electronic copies held where possible, recycling		2	1	5	1	9
Use of electrical / IT equipment	Office Administration, Leachate Management, Gas Utilisation Plant (GUP)	N	Generation of waste, Carbon footprint, Environmental Protection	R – Energy efficiency R – Purchase costs O - IT procurement of hardware centrally, for cost effectiveness.	Low energy equipment where possible, turn off when not in use, screensavers		2	1	5	1	9

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Storage, handling & use of cleaning products	Welfare Facilities / Office	N	Generation of waste	R – Purchase cost R – Adverse publicity O - National procured agreement for office supplies. Use of electronic SFS	Storage procedure/locations, COSHH assessments	Control of substances hazardous to health regs 2002;	2	1	5	1	9
Use of Building materials	Landfill Engineering, On site road maintenance	N	Use of recycled materials for road building, Environmental Protection, Resource depletion, Carbon footprint	O - Use of on-site materials, clays from previous mining operations.	Project management, reuse of available materials, waste acceptance management plan (Section H), Containment management plan (Section A)		3	3	2	1	9
Energy											
Consumption of electricity	Leachate Management, Welfare Facilities / Office, GUP, Laboratory	NN	Resource depletion, Carbon footprint, GUP production	R – Use of resources R – Purchase costs O - Tracked nationally within FCC. Vestigo heat maps. Procurement of supplier.	IMS-FRM-057 site energy management plan, IMS-FRM-055 corporate energy management plan, Safeguard reporting of significant deviations in usage, reduction where possible, CSR reporting & monitoring (Vestigo), Annual reporting, Emissions management plan (Section U)		3	3	5	1	12

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Consumption of fuel	Vehicle & Plant Movements, Surface Water Management, Emergency Generators (Office & GUP)	NN E	Resource depletion, Carbon footprint	R – Adverse impact of a natural resource R – Purchase costs R – Environmental impact O-Fuel usage tracked through plant tracker.	IMS-FRM-057 site energy management plan, IMS-FRM-055 corporate energy management plan, Safeguard reporting of significant deviations in usage, CSR reporting & monitoring (Vestigo), site procedure for fuel use and noise, Emissions management plan (Section U)		3	3	3	1	10
Waste & By-Products											
Waste production (incl. Haz-waste)	Office, Welfare cabins, Laboratory, Vehicle maintenance area, Leachate	N	Generation of waste, Carbon footprint, Recycling, Environmental pollution	Low volume production	Reduction where possible, Storage procedure/locations, COSHH assessments, Leachate Management Plan (Section C)	The waste (England and Wales) regs 2011;	4	2	5	1	12
Waste disposal	Leachate, Waste oils, Office waste	N	Generation of waste, Carbon footprint, Recycling, Environmental pollution	R – Adverse environmental impact O - Procurement of a locally sourced recycling company to remove and sort office / lab waste.	Reduction where possible, Storage procedure/locations, COSHH assessments, Duty of care, Contractor selection process and monitoring	The waste (England and Wales) regs 2011; Environmental protection act 1990;	4	3	4	1	12

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Wildlife & Biodiversity											
Use of land	Landfill, grazing, stockpile, public access	N	Visual impact, ecological impact, generation of habitat, destruction of habitat, harm to human health	R – Vandalism from from public access. O- Biomass, solar farm, lodges.	Permit controls, planning permission, ecological and environmental impact assessments/surveys, Endangered species transferred/transplanted, Sympathetic restoration	Countryside and rights of way act 2000;	2	3	5	1	11
Restoration	Restoration of completed areas of site	N	Visual impact, Stakeholder relations,	R – Cessation of waste input, loss of revenue. R – Vandalism from free access O- Public amenity, grazing.	Restoration plan , local liaison meetings, planning permission, Ecological and environmental impact assessments, Sympathetic restoration	Planning and compensation act 1991; Town and country planning (Environmental impact assessment) (England and Wales)	2	3	3	1	9
Generation/ Loss of Habitat	Development and restoration of site	N	Protection of flora and fauna, generation of habitat, harm to flora and fauna, destruction of habitat.	O - Ecological surveys, restoration of capped areas, implementation of approved planning consent.	Ecological and environmental impact assessments, Flora/fauna surveys, sensitive restoration, endangered species transferred or transplanted.	The wildlife and countryside act 1981; The hedgerows regulations 1997; Town and country planning (Environmental impact assessment) (England and Wales)	2	2	3	2	9
Other											
Noise	Vehicle & Plant Movements, GUP, Engineering Projects	NN	Noise pollution, Loss of amenity, Harm to human health, Stakeholder relations		Traffic management plan, plant maintenance, GUP screening, Noise survey (Occ Health), Noise action plan if required, Pest management plan (v.5 2015), Installation checks	Noise and statutory nuisance act 1993; control of noise at work regs 2005;	2	1	2	1	6

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Noise	Vehicle & Plant Movements, GUP, Engineering Projects	E	Noise pollution, Loss of amenity, Harm to human health, Stakeholder relations	R – Public Nuisance / Harm to Human health. R – Adverse publicity R – Planning objections O – Dukeries noise monitoring of equipment, noise impact assessment, site inspections, checksheets.	Complaint investigation procedure (Safeguard), Complete noise survey, Traffic management plan, Noise action plan, Pest management plan (v.5, 2015), Installation checks	Noise and statutory nuisance act 1993; control of noise at work regs 2005;	2	3	1	2	8
Pests	Waste Disposal	NN	Loss of amenity, Harm to human health, Stakeholder relations, Visual impact	R – Harm to human health R – Adverse publicity O- Waste disposed of with a local recycling company. Paper / card / plastic / glass goes for re use.	Pests management plan (v.5, 2015), Waste acceptance procedure (Section H), Fly/Bird/vermin control contractor, Installations checks		2	2	2	2	8

* N = N = Normal
 NN = NN = Non-normal
 E = E = Emergency