

MATERIAL TOPIC - WASTE	2017	2018	2019			2020			2021			CONTEXT	GRI/SASB
Annual Production - Annual Report figure, financial control: boe	24,827,665	31,853,185			36,630,232			34,839,540			31,173,190		
Annual Production - Annual Report minus non-operated volumes (CDP): boe	21,273,660	28,712,829			36,604,811			34,723,518			31,154,575	2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes ~11 months non-op from IBU	
Annual Production - Operated facility throughput including third-party volumes: boe	19,102,132	29,440,819			44,708,966			42,202,207			36,865,352	Use for intensity calculations to ensure numerator/denominator alignment	
WASTE	2017	2018	2019			2020			2021			Waste disposal data based on direct confirmation or information provided by the waste disposal contractor	GRI
			Hazardous	Non-Hazardous	Total	Hazardous	Non-Hazardous	Total	Hazardous	Non-Hazardous	Total	We refined our reporting in 2019 to provide hazardous and non-hazardous waste breakdowns	
Waste by type and disposal method - Total: metric tonne	124,160	151,230	17,637	118,483	136,120	19,973	74,107	94,079	16,224	138,050	154,273		306-2
Canada	52,056	56,140	8,010	70,667	78,677	8,927	57,550	66,477	11,081	98,163	109,245		
France	2,674	4,505	1,384	2,589	3,972	619	1,754	2,372	319	224	543		
Netherlands	51,386	58,003	7,694	0	7,694	9,693	0	9,693	4,179	98	4,277		
Australia	475	665	89	465	554	163	156	319	453	123	576		
United States	17,568	28,578	0	37,753	37,753	0	14,539	14,539	0	38,895	38,895		
Germany	0	602	304	2,201	2,505	296	18	315	110	373	483		
Central and Eastern Europe - Hungary and Croatia		877	0	0	0	0	0	0	0	0	0		
Ireland		1,860	156	4,808	4,965	274	91	365	81	174	255		
Reuse: metric tonne	1,999	585	0	11	11	0	4	4	0	14	14		306-2
Canada	1,891	0	0	0	0	0	0	0	0	0	0		
France	0	0	0	0	0	0	0	0	0	0	0		
Netherlands	0	562	0	0	0	0	0	0	0	0	0		
Australia	108	23		11	11	0	4	4	0	4	4		
United States	0	0	0	0	0	0	0	0	0	0	0		
Germany	0	0	0	0	0	0	0	0	0	10	10		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0	0	0	0	0	0	0		
Ireland		0	0	0	0	0	0	0	0	0	0		
Recycling: metric tonne	51,402	49,422	1,150	5,078	6,228	1,617	1,882	3,498	1,444	437	1,881		306-2
Canada	218	13	0	42	42	0	45	45	9	4	13		
France	189	305	139	46	185	223	1,727	1,950	16	209	225		
Netherlands	50,923	48,956	1,005	0	1,005	1,357	0	1,357	1,414	78	1,491	2019+ onwards: definition changed to better align with GRI 306-2	
Australia	72	143	2	71	73	5	60	65	3	85	88		
United States	0	0	0	136	136	0	0	0	0	5	5	2 recycling events in 2021 with BJ Salvage - 5 tons (4.53592 tonnes)	
Germany	0	0	0	2	2	0	0	0	0	18	18		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0	0	0	0	0	0	0		
Ireland		5	4	4,781	4,785	32	49	81	2	39	42		
Recovery, including energy recovery: metric tonne	88	301	289	3	292	47	14	61	194	19	213		306-2
Canada	12	0	0	0	0	0	0	0	0	0	0		
France	0	0	0	0	0	0	0	0	0	0	0		
Netherlands	0	0	137	0	137	2	0	2	194	9	203		
Australia	0	0											
United States	0	0	0	0	0	0	0	0	0	0	0		
Germany	76	301	152	3	155	45	14	59	0	10	10		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0	0	0	0	0	0	0		
Ireland		0	0	0	0	0	0	0	0	0	0		
Incineration: metric tonne	970	1,374	2,122	46	2,168	850	64	914	1,005	141	1,146		306-2
Canada	0	0	0	0	0	0	0	0	0	0	0		
France	507	1,042	1,244	16	1,260	388	18	406	303	15	318		
Netherlands	463	23	573	0	573	7	0	7	528	12	540		
Australia	0	0	0	0	0	0	0	0	0	0	0		
United States	0	0	0	0	0			0	0	0	0		
Germany	0	301	152	3	155	238	4	242	95	5	100		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0	0	0	0	0	0	0		
Ireland		8	153	27	180	217	42	259	79	110	189		
Deep well injection: metric tonne	28,691	51,514	7,272	77,670	84,942	9,446	41,496	50,942	9,345	93,832	103,177		306-2
Canada	11,136	15,365	1,683	41,262	42,945	2,672	28,563	31,235	9,325	61,569	70,894		
France	0	0	0	0	0	0	0	0	0	0	0		
Netherlands	0	8,462	5,589		5,589	6,774	0	6,774	21	0	21		
Australia	0	0	0	0	0	0	0	0	0	0	0		
United States	17,554	27,687	0	36,408	36,408	0	12,933	12,933	0	32,263	32,263	2024: 24 tons of water disposal. 1 ton = 330.51 lbs = 32,262,589 kg. Increase associated with the data.	
Germany	0	0	0	0	0	0	0	0	0	0	0		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0	0	0	0	0	0	0		
Ireland		0	0	0	0	0	0	0	0	0	0		
Landfill: metric tonne	25,291	41,397	365	34,082	34,447	376	28,857	29,233	1,039	34,249	35,289		306-2
Canada	23,242	35,979	222	29,175	29,397	205	28,750	28,955	540	33,892	34,432		
France	1,741	3,151	0	2,527	2,527	8	8	16	0	0	0		
Netherlands	0	0	56	0	56	5	0	5	49	0	49		

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Annual Production - Annual Report minus non-operated volumes (CDP): boe	21,273,660	28,712,829		36,604,811		34,723,518		31,154,575	2015-2016: excludes non-op volumes from GBU & IBU; 2017: excludes non-op from IBU; 2018: excludes ~11 months non-op from IBU		
Annual Production - Operated facility throughput including third-party volumes: boe	19,102,132	29,440,819		44,708,966		42,202,207		36,865,352	Use for intensity calculations to ensure numerator/denominator alignment		
Australia	295	499	87	383	470	158	92	250	450	33	483
United States	14	891	0	17	17	0	8	8	0	13	13
Germany	0	0	0	1,980	1,980	0	0	0	0	311	311
Central and Eastern Europe - Hungary and Croatia		877	0	0	0	0	0	0	0	0	0
Ireland		0	0	0	0	0	0	0	0	0	0
On-site storage: metric tonne	0	0	334	1,405	1,739	1,587	1,341	2,928	1,989	6,659	8,648
Canada	0	0	0	0	0	0	0	0	0	0	0
France	0	0	0	0	0	0	0	0	0	0	0
Netherlands	0	0	334	0	334	1,549	0	1,549	1,974	0	1,974
Australia	0	0	0	0	0	0	0	0	0	0	0
United States	0	0	0	1,192	1,192	0	1,341	1,341	0	6,614	6,614
Germany	0	0	0	213	213	13	0	13	15	20	35
Central and Eastern Europe - Hungary and Croatia		0	0	0	0	0	0	0	0	0	0
Ireland		0	0	0	0	25	0	25	0	25	25
Other – Oilfield Waste Processing: metric tonne	15,807	6,637	6,105	188	6,293	6,050	449	6,499	1,208	2,698	3,905
Canada	15,569	4,783	6,105	188	6,293	6,050	192	6,242	1,208	2,698	3,905
France	238	6	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0	0
Australia	0	0	0	0	0	0	0	0	0	0	0
United States	0	0	0	0	0	0	257	257	0	0	0
Germany	0	0	0	0	0	0	0	0	0	0	0
Central and Eastern Europe - Hungary and Croatia		0	0	0	0	0	0	0	0	0	0
Ireland		1,848	0	0	0	0	0	0	0	0	0
Weight of hazardous waste shipped internationally: metric tonne	69	90	206		206	270	0	270	147	0	147
Canada	0	0	0		0	0		0	0		0
France	0	0	0		0	0		0	0		0
Netherlands	69	69	0		0	0		0	0		0
Australia	0	0	0		0	0		0	0		0
United States	0	0	0		0	0		0	0		0
Germany	0	0	0		0	0		0	0		0
Central and Eastern Europe - Hungary and Croatia		0	0		0	0		0	0		0
Ireland		20	206		206	270		270	147		147
DRILL MUD AND CUTTINGS	2017	2018	2019		2020		2021			OG 7	
Drill mud & cuttings produced using <u>non-aqueous</u> drilling fluid, onshore disposal to controlled sites: tonne	7,906	14,970		14,710		17,184		12,549			
Canada	6,800	14,212		9,311		17,184		11,881			
France	238	758		854		0		0			
Netherlands	868	0		885		0		668			
Australia	0	0		0		0		0			
United States	0	0		0		0		0			
Germany	0	0		0		0		0			
Central and Eastern Europe - Hungary and Croatia		0		3,660		0		0			
Ireland		0		0		0		0			
<u>Non-Aqueous</u> drilling fluid re-used at another location (i.e. recovered and transported invert): m3	736	2,182		0		0		0			
Drill mud & cuttings produced using <u>aqueous</u> drilling fluid, onshore disposal to controlled sites: tonne	9,164	9,754		12,391		5,872		11,016			
Canada	3,302	4,837		5,689		5,088		6,890			
France	1,741	3,148		2,527		0		0			
Netherlands	1,787	0		250		43		1167			
Australia	0	0		0		0		0			
United States	2,334	891		0		0		0			
Germany	0	0		3925		0		289			
Central and Eastern Europe - Hungary and Croatia		877		0		742		2,671			
Ireland		0.0		0		0		0			

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Drill mud & cuttings produced using aqueous drilling fluid, disposal at Vermilion controlled location: tonne	0	8,620	16,110	17,389	20,398		
Canada	0	6,648	14,918	16,048	12,830		
France	0	0	0	0	0		
Netherlands	0	0	0	0	0		
Australia	0	1,972	0	0	0		
United States	0	0	1192	1,341	7,568	Onsite cuttings pits (28,000 bbls = 4451.6 m3 @ 1.7 tonne/m3)	
Germany	0	0	0	0	0		
Central and Eastern Europe - Hungary and Croatia		0	0	0	0		
Ireland		0	0	0	0		
Sites where waste data is third-party verified							
Canada				Yes	Yes		
France				Yes	Yes		
Netherlands				Yes	Yes		
Ireland				No	Yes		
Sites where waste management is ISO 14001 certified							
Canada				Yes	Yes		
Australia				Yes	Yes		
Germany				Yes	Yes		
Ireland				Yes	Yes		
Sites where hazardous waste management is HAZWOPER certified							
Ireland				Yes	Yes		