

Dispersion Report

Workspace: 72341-2FSRURegas

Study: FSRU in rigassificazione

Equipment Item: 7R Linee mandata pompe LNG Feed e collettore GNL

72341-2FSRURegas\FSRU in rigassificazione\7R Linee mandata pompe LNG Feed e collettore GNL

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (Leak) : 70mm

72341-2FSRURegas\FSRU in rigassificazione\7R Linee mandata pompe LNG Feed e collettore GNL\70mm

Material to track	GAS NATURALE
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Weather: Category 2/F

Wind speed [m/s]	2
Pasquill stability	F stable - night with moderate clouds and light/moderate wind
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	100

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	66,9133	0	66,9133

2 Continuous 195,712 0 kg/s 66,9133 0 66,9133

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Li ne height [m]	C/Li ne conc [ppm]	Effective width [m]	Effective depth [m]	C/Line vapour temperature [degC]	C/Li ne liquid fraction	C/Line liquid temperature [degC]	Centroid velocity [m/s]	C/Li ne cloud density [kg/m ³]
1	0	0	12,5	999.9 99,41	0,074 4751	0,033 406	- 160,974	0,995 227	- 160,974	64,19 08	209,4 95
1	0,01	0,6381 88	12,49 95	992.1 39,30	0,157 812	0,070 7558	- 163,795	0,970 908	- 163,795	63,37 23	47,91 35
1	0,013 9921	0,8903 51	12,49 91	988.0 69,17	0,177 539	0,079 5909	- 164,359	0,964 179	- 164,359	62,95 2	38,37 86
1	0,013 9921	0,8903 51	12,49 91	988.0 69,17	0,177 537	0,079 5902	- 164,361	0,964 179	- 164,359	62,95 2	38,37 94
1	0,02	1,2664 3	12,49 81	980.9 81,26	0,222 806	0,099 8549	- 147,241	0,953 501	- 165,869	62,22 55	24,95 86
1	0,03	1,8816 2	12,49 58	966.7 71,24	0,285 812	0,128 045	- 132,643	0,937 941	- 167,762	60,79	15,91 22
1	0,04	2,4815 9	12,49 26	950.5 73,47	0,342 238	0,153 293	- 123,356	0,924 796	- 169,095	59,18 69	11,72 17
1	0,05	3,0651	12,48 87	933.2 26,06	0,393 327	0,176 17	- 120,473	0,910 623	- 170,211	57,50 8	9,411 27
1	0,06	3,6317 3	12,48 4	915.4 03,80	0,439 892	0,197 05	- 119,526	0,897 599	- 170,876	55,82 28	7,994 26
1	0,07	4,1816 8	12,47 87	897.4 86,08	0,484 113	0,216 916	- 119,283	0,885 062	- 171,298	54,16 75	7,017 2
1	0,08	4,7153 3	12,47 27	879.6 95,15	0,527 064	0,236 254	- 119,348	0,872 524	- 171,615	52,56 15	6,293 32
1	0,09	5,2332 8	12,46 62	862.2 08,95	0,569 045	0,255 204	- 119,538	0,859 937	-171,87	51,01 8	5,735 41

1	0,1	5,7363	12,45	845.1	0,610	0,273	-	0,847	-	49,54	5,293
			9	45,42	188	829	119,764	323	172,084	44	1
1	0,11	6,2249	12,45	828.5	0,650	0,292	-	0,834	-	48,14	4,934
		1	14	55,20	586	174	120,005	701	172,261	13	71
1	0,12	6,6996	12,44	812.4	0,690	0,310	-	0,822	-	46,80	4,639
		4	32	66,99	309	272	120,249	086	172,406	8	03
1	0,13	7,1613	12,43	796.9	0,729	0,328	-	0,809	-	45,54	4,391
		3	45	19,97	364	125	120,489	488	172,529	42	51
1	0,14	7,6104	12,42	781.9	0,767	0,345	-	0,796	-	44,34	4,181
		5	53	14,18	8	757	120,723	912	172,632	68	5
1	0,15	8,0477	12,41	767.4	0,805	0,363	-	0,784	-	43,21	4,001
		8	57	62,62	618	167	120,947	368	172,723	38	34
1	0,16	8,4741	12,40	753.5	0,842	0,380	-	0,771	-	42,14	3,845
		1	57	53,21	859	371	121,153	877	172,803	16	13
1	0,17	8,8900	12,39	740.1	0,879	0,397	-	0,759	-	41,12	3,708
		1	52	72,25	547	38	121,338	452	172,875	67	44
1	0,18	9,2961	12,38	727.3	0,915	0,414	-	0,747	-	40,16	3,587
			43	07,15	695	197	121,502	108	172,941	58	88
1	0,19	9,6927	12,37	714.9	0,951	0,430	-	0,734	-	39,25	3,480
		1	31	31,79	323	828	121,651	845	172,999	5	88
1	0,2	10,080	12,36	703.0	0,986	0,447	-	0,722	-	38,39	3,385
		5	15	36,12	43	272	121,784	679	173,051	16	3
1	0,212	10,534	12,34	689.3	1,027	0,466	-	0,708	-	37,41	3,283
		8	71	63,53	9	764	121,922	215	173,108	38	29
1	0,226	11,064	12,32	673.7	1,076	0,489	-122,06	0,691	-	36,31	3,175
	4	9	91	55,89	81	849		043	173,167	61	92
1	0,243	11,681	12,30	656.1	1,134	0,517	-	0,670	-173,23	35,09	3,064
	68		65	13,40	29	111	122,188	728		84	73
1	0,264	12,393	12,27	636.3	1,201	0,549	-	0,646	-	33,76	2,951
	416	8	82	58,27	71	253	122,294	76	173,294	32	27
1	0,289	13,213	12,24	614.4	1,280	0,587	-	0,618	-	32,31	2,837
	299	7	24	69,28	57	081	122,359	574	173,359	76	24
1	0,319	14,152	12,19	590.5	1,372	0,631	-	0,585	-	30,77	2,724
	159	1	69	00,76	59	508	122,361	561	173,427	41	27
1	0,354	15,220	12,13	564.5	1,479	0,683	-	0,547	-	29,15	2,613
	991	8	89	96,11	63	547	122,267	119	173,498	05	86
1	0,397	16,432	12,06	536.9	1,603	0,744	-	0,502	-	27,46	2,507
	989	6	46	69,72	82	372	122,032	639	173,575	83	15

1	0,449 587	17,798 6	11,96 9	507.8 76,16	1,747 75	0,815 402	- 121,601	0,451 523	- 173,659	25,74 97	2,404 84
1	0,511 504	19,330 7	11,84 54	477.6 22,94	1,914 48	0,898 318	- 120,896	0,393 28	- 173,745	24,01 8	2,307 18
1	0,585 805	21,040 2	11,68 51	446.5 32,19	2,107 88	0,995 263	- 119,796	0,327 652	-173,84	22,29 52	2,213 77
1	0,674 966	22,935	11,47 63	414.9 34,35	2,333 05	1,109 07	- 118,087	0,255 088	- 173,959	20,60 14	2,123 34
1	0,781 959	25,025 4	11,20 38	383.1 16,24	2,596 98	1,243 7	- 115,447	0,177 137	- 174,111	18,95 26	2,033 94
1	0,910 351	27,321 4	10,84 8	351.3 16,65	2,909 94	1,404 97	- 111,322	0,097 8365	- 174,294	17,36 01	1,942 47
1	1,064 42	29,829 1	10,38 36	319.7 21,52	3,288 59	1,602 38	- 104,555	0,027 6912	- 174,526	15,83 07	1,843 33
1	1,191 95	31,735 8	9,972 54	297.5 17,90	3,614 27	1,774 2	- 96,4824	5,045 49E- 05	- 174,721	14,78 49	1,761 18
1	1,191 95	31,735 8	9,972 54	297.5 17,90	3,614 24	1,774 18	- 96,4883	0		14,78 49	1,761 21
1	1,249 31	32,549 4	9,780 9	288.4 43,62	3,767 37	1,855 45	- 91,7929	0		14,36 34	1,722 58
1	1,471 17	35,477 8	9,009 83	257.6 70,95	4,360 64	2,166	- 75,7816	0		12,95 4	1,604 91
1	1,737 4	38,608 6	8,040 7	228.1 29,85	5,069 66	2,529 54	- 60,3014	0		11,62 21	1,508 21
1	2,056 88	41,920 7	6,838 02	200.6 86,16	5,902 71	2,950 32	- 45,8937	0		10,38 89	1,430 22
1	2,440 26	45,391 7	5,363 58	175.8 27,30	6,902 15	3,451 12	- 33,0243	0		9,259 25	1,368 73
1	2,798 01	48,239 6	3,974 43	158.3 44,82	7,995 88	3,997 7	- 24,3342	0		8,468 56	1,331 12
1	2,798 01	48,239 6	3,974 43	158.3 44,82	7,995 87	3,997 7	- 24,3342	0		8,468 6	1,331 12
1	2,900 31	49,002 9	3,584 85	154.5 35,75	8,677 36	3,982 32	- 22,5116	0		8,291 31	1,323 62
1	3,452 37	53,056	1,920 76	140.6 70,75	12,02 03	4,404 61	- 16,1768	0		7,666 68	1,298 64
1	4,114	57,835	0,792	130.7	15,54	4,907	-	0		7,189	1,283

	84		813	71,45	73	56	12,0009			64	09
1	4,909 81	63,31	0,043 2395	122.5 56,26	19,37 38	5,243 73	- 8,83755	0		6,729 5	1,271 86
1	4,955 37	63,614 2	0,01	122.1 52,12	19,58 37	5,259 64	- 8,69584	0		6,705 38	1,271 38
1	4,955 37	63,614 2	0	122.1 52,28	19,58 37	5,294 87	- 8,70145	0		6,673 35	1,271 41
1	5,863 77	69,439 6	0	115.7 93,94	23,61 45	5,035 82	- 6,27722	0		6,196 92	1,262 86
1	7,008 53	76,241 5	0	108.8 92,33	28,39 57	4,892 81	- 3,79849	0		5,695 2	1,254 38
1	8,382 23	83,721 2	0	101.9 34,66	33,81 7	4,844 58	- 1,45735	0		5,206 96	1,246 64
1	10,03 07	91,906 9	0	95.06 0,39	40,01 66	4,857 66	0,56162 2	0		4,743 36	1,240 38
1	12,00 88	100,85	0	88.38 2,61	47,17 39	4,914 4	2,62768	0		4,312 41	1,233 9
1	14,38 26	110,60 6	0	81.97 4,71	55,41 96	5,000 87	4,51408	0		3,918 16	1,228 13
1	17,23 11	121,25 7	0	75.89 0,50	64,94 93	5,105 78	6,2238	0		3,560 98	1,223 03
1	20,64 93	132,89	0	70.16 3,85	75,98 97	5,218 85	7,7664	0		3,240 4	1,218 53
1	24,75 12	145,59	0	64.81 6,63	88,75 84	5,331 43	9,15408	0		2,954 98	1,214 55
1	29,67 34	159,48 8	0	59.85 1,06	103,3 02	5,437 27	10,4025	0		2,701 89	1,211 03
1	35,58 01	174,78 6	0	55.25 0,44	119,8 84	5,534 42	11,5298	0		2,476 74	1,207 89
1	42,66 81	191,71 1	0	51.00 3,10	138,8 06	5,621 67	12,5508	0		2,275 55	1,205 05
1	51,17 37	210,44	0	47.11 2,62	160,3 54	5,687 68	13,476	0		2,098 47	1,202 49
1	61,38 05	231,24	0	43.56 8,04	184,8 83	5,733 68	14,3166	0		1,941 02	1,200 14
1	73,62 86	254,44 8	0	40.35 6,09	212,8 2	5,756 09	15,0771	0		1,801 02	1,198
1	88,32	280,40	0	37.47	244,6	5,750	15,7645	0		1,676	1,196

	63	5		3,14	16	59				5	04
1	105,9 64	309,48 5	0	34.91 7,77	280,7 53	5,712 48	16,3872	0		1,565 82	1,194 23
1	127,1 28	342,19	0	32.67 9,11	321,8 24	5,640 88	16,9554	0		1,466 9	1,192 51
1	152,5 26	379,09 5	0	30.69 6,21	368,4 71	5,540 7	17,4869	0		1,379 1	1,190 84
1	183,0 03	420,95 2	0	28.39 4,30	421,4 86	5,496 87	18,0658	0		1,306 79	1,189 08
1	219,5 76	468,91 6	0	25.55 3,26	482,0 2	5,534 55	18,7033	0		1,257 06	1,187 29
1	236,3 58	490,29 8	0	24.26 1,40	508,7 55	5,575 54	18,9704	0		1,243 93	1,186 58
1	236,3 58	490,29 8	0	24.26 1,40	508,7 55	5,576 67	18,9704	0		1,243 68	1,186 58
1	240,8 64	495,90 9	0	23.92 1,22	509,1 67	5,640 86	19,0388	0		1,246 46	1,186 4
1	263,4 63	524,25 4	0	22.32 7,88	511,2 75	5,952 23	19,3515	0		1,262 48	1,185 61
1	316,1 27	591,90 8	0	19.21 5,84	516,4 54	6,631 53	19,9265	0		1,307 87	1,184 24
1	379,3 25	676,80 3	0	15.80 7,45	521,3 5	7,587 57	21,4642	0		1,384 96	1,179 68
1	391,0 9	693,20 6	0	15.14 6,28	522,0 01	7,810 88	21,7128	0		1,403 68	1,179
1	391,0 9	693,20 6	0	15.14 6,28	522,0 01	7,810 7	21,7128	0		1,403 72	1,179
1	455,1 62	786,72 8	0	11.89 5,04	525,7 95	9,175 51	22,7782	0		1,517 01	1,176 32
1	546,1 66	932,59 2	0	8.542, 15	531,6 28	11,38 81	23,6627	0		1,690 07	1,174 42
1	655,3 72	1128,5 3	0	6.032, 55	539,3 27	14,23 63	24,2035	0		1,892 9	1,173 48
1	717,4 24	1248,8 9	0	5.232, 62	543,9 9	15,56 22	24,3639	0		1,981 8	1,173 23
2	195,7 12	0	12,5	999.9 99,41	0,074 4751	0,033 406	- 160,974	0,995 227	- 160,974	64,19 08	209,4 95

2	195,722	0,638188	12,4995	992.139,30	0,157812	0,0707558	-163,795	0,970908	-163,795	63,3723	47,9135
2	195,726	0,890351	12,4991	988.069,17	0,177539	0,0795909	-164,359	0,964179	-164,359	62,952	38,3786
2	195,726	0,890351	12,4991	988.069,17	0,177537	0,0795902	-164,361	0,964179	-164,359	62,952	38,3794
2	195,732	1,26643	12,4981	980.981,26	0,222806	0,0998549	-147,241	0,953501	-165,869	62,2255	24,9586
2	195,742	1,88162	12,4958	966.771,24	0,285812	0,128045	-132,643	0,937941	-167,762	60,79	15,9122
2	195,752	2,48159	12,4926	950.573,47	0,342238	0,153293	-123,356	0,924796	-169,095	59,1869	11,7217
2	195,762	3,065187	12,4887	933.226,06	0,393327	0,17617	-120,473	0,910623	-170,211	57,508	9,41127
2	195,772	3,63173	12,484	915.403,80	0,439892	0,19705	-119,526	0,897599	-170,876	55,8228	7,99426
2	195,782	4,18168	12,4787	897.486,08	0,484113	0,216916	-119,283	0,885062	-171,298	54,1675	7,0172
2	195,792	4,71533	12,4727	879.695,15	0,527064	0,236254	-119,348	0,872524	-171,615	52,5615	6,29332
2	195,802	5,23328	12,4662	862.208,95	0,569045	0,255204	-119,538	0,859937	-171,87	51,018	5,73541
2	195,812	5,73639	12,459	845.145,42	0,610188	0,273829	-119,764	0,847323	-172,084	49,5444	5,2931
2	195,822	6,22491	12,4514	828.555,20	0,650586	0,292174	-120,005	0,834701	-172,261	48,1413	4,93471
2	195,832	6,69964	12,4432	812.466,99	0,690309	0,310272	-120,249	0,822086	-172,406	46,808	4,63903
2	195,842	7,16133	12,4345	796.919,97	0,729364	0,328125	-120,489	0,809488	-172,529	45,5442	4,39151
2	195,852	7,61045	12,4253	781.914,18	0,7678	0,345757	-120,723	0,796912	-172,632	44,3468	4,1815
2	195,862	8,04778	12,4157	767.462,62	0,805618	0,363167	-120,947	0,784368	-172,723	43,2138	4,00134
2	195,872	8,47411	12,4057	753.553,21	0,842859	0,380371	-121,153	0,771877	-172,803	42,1416	3,84513
2	195,882	8,89001	12,3952	740.172,25	0,879547	0,39738	-121,338	0,759452	-172,875	41,1267	3,70844

2	195,892	9,2961	12,3843	727.307,15	0,915695	0,414197	-121,502	0,747108	-172,941	40,1658	3,58788
2	195,902	9,69271	12,3731	714.931,79	0,951323	0,430828	-121,651	0,734845	-172,999	39,255	3,48088
2	195,912	10,0805	12,3615	703.036,12	0,98643	0,447272	-121,784	0,722679	-173,051	38,3916	3,3853
2	195,924	10,5348	12,3471	689.363,53	1,0279	0,466764	-121,922	0,708215	-173,108	37,4138	3,28329
2	195,938	11,0649	12,3291	673.755,89	1,07681	0,489849	-122,06	0,691043	-173,167	36,3161	3,17592
2	195,955	11,681	12,3065	656.113,40	1,13429	0,517111	-122,188	0,670728	-173,23	35,0984	3,06473
2	195,976	12,3938	12,2782	636.358,27	1,20171	0,549253	-122,294	0,64676	-173,294	33,7632	2,95127
2	196,001	13,2137	12,2424	614.469,28	1,28057	0,587081	-122,359	0,618574	-173,359	32,3176	2,83724
2	196,031	14,1521	12,1969	590.500,76	1,37259	0,631508	-122,361	0,585561	-173,427	30,7741	2,72427
2	196,067	15,2208	12,1389	564.596,11	1,47963	0,683547	-122,267	0,547119	-173,498	29,1505	2,61386
2	196,11	16,4326	12,0646	536.969,72	1,60382	0,744372	-122,032	0,502639	-173,575	27,4683	2,50715
2	196,161	17,7986	11,969	507.876,16	1,74775	0,815402	-121,601	0,451523	-173,659	25,7497	2,40484
2	196,223	19,3307	11,8454	477.622,94	1,91448	0,898318	-120,896	0,39328	-173,745	24,018	2,30718
2	196,297	21,0402	11,6851	446.532,19	2,10788	0,995263	-119,796	0,327652	-173,84	22,2952	2,21377
2	196,387	22,935	11,4763	414.934,35	2,33305	1,10907	-118,087	0,255088	-173,959	20,6014	2,12334
2	196,494	25,0254	11,2038	383.116,24	2,59698	1,2437	-115,447	0,177137	-174,111	18,9526	2,03394
2	196,622	27,3214	10,848	351.316,65	2,90994	1,40497	-111,322	0,0978365	-174,294	17,3601	1,94247
2	196,776	29,8291	10,3836	319.721,52	3,28859	1,60238	-104,555	0,0276912	-174,526	15,8307	1,84333
2	196,904	31,7358	9,97254	297.517,90	3,61427	1,7742	-96,4824	5,04549E-	-174,721	14,7849	1,76118

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2	196,904	31,7358	9,97254	297.517,90	3,61424	1,77418	-96,4883	0		14,7849	1,76121
2	196,961	32,5494	9,7809	288.443,62	3,76737	1,85545	-91,7929	0		14,3634	1,72258
2	197,183	35,4778	9,00983	257.670,95	4,36064	2,166	-75,7816	0		12,954	1,60491
2	197,449	38,6086	8,0407	228.129,85	5,06966	2,52954	-60,3014	0		11,6221	1,50821
2	197,768	41,9207	6,83802	200.686,16	5,90271	2,95032	-45,8937	0		10,3889	1,43022
2	198,152	45,3917	5,36358	175.827,30	6,90215	3,45112	-33,0243	0		9,25925	1,36873
2	198,51	48,2396	3,97443	158.344,82	7,99588	3,9977	-24,3342	0		8,46856	1,33112
2	198,51	48,2396	3,97443	158.344,82	7,99587	3,9977	-24,3342	0		8,4686	1,33112
2	198,612	49,0029	3,58485	154.535,75	8,67736	3,98232	-22,5116	0		8,29131	1,32362
2	199,164	53,056	1,92076	140.670,75	12,0203	4,40461	-16,1768	0		7,66668	1,29864
2	199,826	57,835	0,792813	130.771,45	15,5473	4,90756	-12,0009	0		7,18964	1,28309
2	200,621	63,31	0,0432395	122.556,26	19,3738	5,24373	-8,83755	0		6,7295	1,27186
2	200,667	63,6142	0,01	122.152,12	19,5837	5,25964	-8,69584	0		6,70538	1,27138
2	200,667	63,6142	0	122.152,28	19,5837	5,29487	-8,70145	0		6,67335	1,27141
2	201,575	69,4396	0	115.793,94	23,6145	5,03582	-6,27722	0		6,19692	1,26286
2	202,72	76,2415	0	108.892,33	28,3957	4,89281	-3,79849	0		5,6952	1,25438
2	204,094	83,7212	0	101.934,66	33,817	4,84458	-1,45735	0		5,20696	1,24664
2	205,742	91,9069	0	95.060,39	40,0166	4,85766	0,561622	0		4,74336	1,24038
2	207,7	100,85	0	88.38	47,17	4,914	2,62768	0		4,312	1,233

	2			2,61	39	4				41	9
2	210,0 94	110,60 6	0	81.97 4,71	55,41 96	5,000 87	4,51408	0		3,918 16	1,228 13
2	212,9 43	121,25 7	0	75.89 0,50	64,94 93	5,105 78	6,2238	0		3,560 98	1,223 03
2	216,3 61	132,89	0	70.16 3,85	75,98 97	5,218 85	7,7664	0		3,240 4	1,218 53
2	220,4 63	145,59	0	64.81 6,63	88,75 84	5,331 43	9,15408	0		2,954 98	1,214 55
2	225,3 85	159,48 8	0	59.85 1,06	103,3 02	5,437 27	10,4025	0		2,701 89	1,211 03
2	231,2 92	174,78 6	0	55.25 0,44	119,8 84	5,534 42	11,5298	0		2,476 74	1,207 89
2	238,3 8	191,71 1	0	51.00 3,10	138,8 06	5,621 67	12,5508	0		2,275 55	1,205 05
2	246,8 85	210,44	0	47.11 2,62	160,3 54	5,687 68	13,476	0		2,098 47	1,202 49
2	257,0 92	231,24	0	43.56 8,04	184,8 83	5,733 68	14,3166	0		1,941 02	1,200 14
2	269,3 4	254,44 8	0	40.35 6,09	212,8 2	5,756 09	15,0771	0		1,801 02	1,198
2	284,0 38	280,40 5	0	37.47 3,14	244,6 16	5,750 59	15,7645	0		1,676 5	1,196 04
2	301,6 75	309,48 5	0	34.91 7,77	280,7 53	5,712 48	16,3872	0		1,565 82	1,194 23
2	322,8 4	342,19	0	32.67 9,11	321,8 24	5,640 88	16,9554	0		1,466 9	1,192 51
2	348,2 37	379,09 5	0	30.69 6,21	368,4 71	5,540 7	17,4869	0		1,379 1	1,190 84
2	378,7 15	420,95 2	0	28.39 4,30	421,4 86	5,496 87	18,0658	0		1,306 79	1,189 08
2	415,2 87	468,91 6	0	25.55 3,26	482,0 2	5,534 55	18,7033	0		1,257 06	1,187 29
2	432,0 7	490,29 8	0	24.26 1,40	508,7 55	5,575 54	18,9704	0		1,243 93	1,186 58
2	432,0 7	490,29 8	0	24.26 1,40	508,7 55	5,576 67	18,9704	0		1,243 68	1,186 58
2	436,5	495,90	0	23.92	509,1	5,640	19,0388	0		1,246	1,186

	76	9		1,22	67	86				46	4
2	459,1 74	524,25 4	0	22.32 7,88	511,2 75	5,952 23	19,3515	0		1,262 48	1,185 61
2	511,8 39	591,90 8	0	19.21 5,84	516,4 54	6,631 53	19,9265	0		1,307 87	1,184 24
2	575,0 36	676,80 3	0	15.80 7,45	521,3 5	7,587 57	21,4642	0		1,384 96	1,179 68
2	586,8 01	693,20 6	0	15.14 6,28	522,0 01	7,810 88	21,7128	0		1,403 68	1,179
2	586,8 01	693,20 6	0	15.14 6,28	522,0 01	7,810 7	21,7128	0		1,403 72	1,179
2	650,8 73	786,72 8	0	11.89 5,04	525,7 95	9,175 51	22,7782	0		1,517 01	1,176 32
2	741,8 78	932,59 2	0	8.542, 15	531,6 28	11,38 81	23,6627	0		1,690 07	1,174 42
2	851,0 83	1128,5 3	0	6.032, 55	539,3 27	14,23 63	24,2035	0		1,892 9	1,173 48
2	913,1 36	1248,8 9	0	5.232, 62	543,9 9	15,56 22	24,3639	0		1,981 8	1,173 23

Weather: Category 5/D

Wind speed [m/s]	5
Pasquill stability	D neutral - little sun and high wind or overcast/windy night
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	800

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	66,9133	0	66,9133
2	Continuous	195,712	0	kg/s	66,9133	0	66,9133

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Downwind distance [m]	C/Line height [m]	C/Line conc [ppm]	Effective width [m]	Effective depth [m]	C/Line vapour temperature [degC]	C/Line liquid fraction	C/Line liquid temperature [degC]	Centroid velocity [m/s]	C/Line cloud density [kg/m3]
1	0	0	12,5	999.9 99,41	0,074 5159	0,033 3877	- 160,974	0,9952 27	- 160,974	64,19 08	209,4 96
1	0,01	0,6384 78	12,49 95	992.3 87,63	0,156 465	0,070 0813	- 163,757	0,9713 74	- 163,757	63,43 6	48,72 16
1	0,01 4348	0,9133 89	12,49 9	988.0 71,78	0,177 49	0,079 4894	- 164,363	0,9642 12	- 164,363	63,01 16	38,40 2

1	0,01 4348	0,9133 89	12,49 9	988.0 71,78	0,177 488	0,079 4886	- 164,365	0,9642 12	- 164,363	63,01 16	38,40 27
1	0,02	1,2677 9	12,49 81	981.5 95,78	0,219 172	0,098 1339	- 148,384	0,9544 05	- 165,753	62,37 93	25,72 7
1	0,03	1,8850 5	12,49 58	967.8 00,03	0,281 058	0,125 804	- 134,098	0,9388	- 167,659	61,05 1	16,37 05
1	0,04	2,4882	12,49 26	951.9 89,49	0,336 24	0,150 479	- 124,737	0,9259 13	- 168,968	59,55 88	12,04 88
1	0,05	3,0759 7	12,48 87	934.9 49,52	0,386 628	0,173 027	- 121,312	0,9121 39	- 170,075	57,98 54	9,639 38
1	0,06	3,6478 6	12,48 4	917.2 78,66	0,432 5	0,193 583	- 120,432	0,8990 47	- 170,767	56,39 09	8,166 62
1	0,07	4,2039 6	12,47 86	899.3 77,93	0,476 276	0,213 236	- 120,205	0,8863 35	-171,23	54,81 27	7,146 8
1	0,08	4,7444 1	12,47 26	881.5 42,32	0,518 625	0,232 29	- 120,243	0,8738 16	- 171,549	53,27 62	6,396 85
1	0,09	5,2697	12,46 6	863.9 33,53	0,560 2	0,251 045	- 120,338	0,8612 13	- 171,816	51,79 32	5,816 13
1	0,1	5,7804 3	12,45 89	846.6 58,73	0,601 129	0,269 564	- 120,445	0,8485 22	- 172,051	50,37	5,354 04
1	0,11	6,2772 3	12,45 12	829.8 05,08	0,641 385	0,287 837	- 120,527	0,8358 92	- 172,238	49,01 09	4,979 71
1	0,12	6,7607 5	12,44 29	813.4 16,36	0,681 005	0,305 883	- 120,615	0,8232 67	- 172,392	47,71 61	4,671 21
1	0,13	7,2316 2	12,43 42	797.5 25,70	0,720 073	0,323 743	- 120,699	0,8106 07	- 172,532	46,48 53	4,412 43
1	0,14	7,6904 8	12,42 51	782.1 52,12	0,758 591	0,341 418	-120,77	0,7979 57	- 172,656	45,31 69	4,192 71
1	0,15	8,1379 5	12,41 55	767.3 06,51	0,796 571	0,358 912	- 120,827	0,7853 27	-172,77	44,20 89	4,004 07
1	0,16	8,5746 1	12,40 55	752.9 80,31	0,834 014	0,376 227	- 120,867	0,7727 72	- 172,866	43,15 81	3,840 69
1	0,17	9,0010 2	12,39 5	739.1 64,46	0,870 934	0,393 365	- 120,896	0,7602 92	- 172,945	42,16 15	3,697 99
1	0,18	9,4177 3	12,38 42	725.8 41,76	0,907 345	0,410 331	-120,92	0,7478 9	- 173,007	41,21 57	3,572 44
1	0,19	9,8251 1	12,37 3	712.9 87,38	0,943 326	0,427 161	- 120,933	0,7355 37	- 173,062	40,31 68	3,460 86

1	0,2	10,223	12,36	700.5	0,978	0,443	-	0,7232	-	39,46	3,360
		6	15	83,59	904	866	120,935	21	173,114	21	99
1	0,21	10,690	12,34	686.2	1,021	0,463	-	0,7084	-173,18	38,49	3,254
	2	8	71	69,63	1	758	120,926	75		07	1
1	0,22	11,236	12,32	669.8	1,071	0,487	-	0,6909	-	37,39	3,141
	64	4	93	79,66	01	398	120,896	03	173,253	77	56
1	0,24	11,871	12,30	651.2	1,129	0,515	-	0,6700	-	36,18	3,024
	368	2	7	84,73	86	431	120,828	44	173,327	19	97
1	0,26	12,606	12,27	630.3	1,199	0,548	-	0,6453	-	34,84	2,905
	4416	3	89	80,56	18	653	120,703	28	173,406	5	88
1	0,28	13,453	12,24	607.1	1,280	0,587	-	0,6161	-	33,39	2,786
	9299	7	37	32,76	65	974	120,489	64	173,488	4	01
1	0,31	14,425	12,19	581.5	1,376	0,634	-	0,5818	-	31,84	2,667
	9159	4	9	71,41	23	47	120,148	9	173,572	06	
1	0,35	15,532	12,14	553.7	1,488	0,689	-	0,5417	-	30,20	2,550
	4991	8	23	92,06	29	444	119,636	58	173,662	03	24
1	0,39	16,788	12,07	523.9	1,619	0,754	-	0,4950	-	28,49	2,436
	7989	7		83,00	58	434	118,889	34	173,761	33	82
1	0,44	18,207	11,97	492.4	1,773	0,831	-	0,4410	-	26,74	2,327
	9587	1	75	08,76	43	309	117,816	6	173,868	28	37
1	0,51	19,799	11,85	459.3	1,954	0,922	-	0,3792	-	24,97	2,221
	1504	4	9	59,56	19	482	116,298	25	173,989	09	98
1	0,58	21,578	11,70	425.1	2,167	1,031	-	0,3092	-	23,19	2,120
	5805	3	67	62,59	49	09	114,159	59	174,121	95	17
1	0,67	23,554	11,51	390.1	2,421	1,161	-111,11	0,2317	-	21,44	2,020
	4966	9	08	49,97	1	43		24	174,273	81	6
1	0,78	25,736	11,25	354.6	2,726	1,319	-	0,1491	-	19,73	1,920
	1959	4	9	53,07	16	63	106,655	71	174,456	35	98
1	0,91	28,133	10,93	318.9	3,099	1,514	-	0,0681	-	18,06	1,817
	0351	5	62	67,83	52	79	99,9575	898	174,673	75	95
1	1,06	30,755	10,52	283.3	3,569	1,761	-	0,0066	-	16,45	1,705
	442	6	52	75,92	33	57	89,2429	5684	174,921	79	49
1	1,11	31,496	10,39	273.8	3,718	1,839	-	5,0494	-	16,03	1,671
	068	2	78	95,50	21	87	85,0699	1E-05	174,977	68	66
1	1,11	31,496	10,39	273.8	3,718	1,839	-	0		16,03	1,671
	068	2	78	95,50	19	85	85,0755			68	68
1	1,24	33,604	10,00	248.1	4,181	2,081	-	0		14,90	1,578
	931	1	9	70,88	47	5	71,6501			69	45

1	1,47 117	36,686 1	9,376 87	214.0 41,68	4,940 36	2,469 18	- 53,7155	0		13,43 01	1,471 88
1	1,73 74	39,993 3	8,619 32	181.8 44,06	5,869 47	2,936 69	- 36,8488	0		12,04 73	1,386 63
1	2,05 688	43,523 1	7,733 52	152.2 79,07	7,000 35	3,502 29	-22,029	0		10,77 19	1,321 66
1	2,44 026	47,282 9	6,724 07	125.8 25,57	8,411 82	4,207 45	- 10,3206	0		9,620 07	1,276 48
1	2,90 031	51,315 5	5,604 22	102.8 92,52	10,29 83	5,150 21	- 1,95863	0		8,633 5	1,247 77
1	2,91 408	51,429 7	5,572 26	102.3 63,42	10,35 5	5,178 59	- 1,78612	0		8,611 09	1,247 22
1	2,91 408	51,429 7	5,572 26	102.3 63,42	10,35 5	5,178 57	- 1,78612	0		8,611 13	1,247 22
1	3,45 237	55,746 7	4,468 65	89.11 9,10	13,14 4	5,523 33	2,1999	0		8,017 48	1,234 95
1	4,11 484	60,821 3	3,495 4	80.70 9,14	16,27 7	5,690 09	4,67462	0		7,619 96	1,227 52
1	4,90 981	66,696 9	2,718 13	74.70 0,11	19,73 46	5,741 14	6,36029	0		7,311 85	1,222 61
1	5,86 377	73,510 2	2,100 28	69.96 3,69	23,57 99	5,722 75	7,64958	0		7,044 6	1,218 91
1	7,00 853	81,409 3	1,579 78	65.88 3,55	27,88 08	5,700 83	8,73829	0		6,796 16	1,215 81
1	8,38 223	90,562 6	1,094 59	62.10 5,78	32,71 3	5,735 93	9,73123	0		6,557 86	1,212 99
1	10,0 307	101,16 5	0,601 022	58.47 4,54	38,16 06	5,860 46	10,674	0		6,327 93	1,210 33
1	12,0 088	113,44 4	0,075 0162	54.94 1,58	44,31 5	6,082 14	11,5825	0		6,106 99	1,207 78
1	12,2 667	115,01 4	0,01 0,72	54.53 0,72	45,09 19	6,114 72	11,6877	0		6,081 59	1,207 48
1	12,2 667	115,01 4	0 0,72	54.53 0,72	45,09 19	6,128 21	11,6878	0		6,078 14	1,207 48
1	14,3 826	127,58 7	0 5,27	52.09 5,27	51,25 6	5,871 42	12,3322	0		5,857 17	1,205 57
1	17,2 311	143,88 5	0 3,26	48.76 3,26	59,17 21	5,701 66	13,1817	0		5,600 92	1,203 09

1	20,6 493	162,60 3	0	44.81 5,71	68,20 89	5,656 3	14,1426	0		5,350 16	1,200 36
1	24,7 512	184,07 5	0	40.32 4,21	78,53	5,731 77	15,1797	0		5,118 3	1,197 51
1	29,6 734	208,76 2	0	35.44 1,21	90,35 08	5,924 33	16,2422	0		4,918 57	1,194 69
1	35,5 801	237,30 5	0	30.37 8,66	103,9 51	6,232 8	17,2717	0		4,760 97	1,192 09
1	42,1 645	268,26 9	0	25.69 8,50	118,6 2	6,626 5	18,161	0		4,656 29	1,189 97
1	42,1 645	268,26 9	0	25.69 8,50	118,6 2	6,626 63	18,161	0		4,656 2	1,189 97
1	42,6 681	270,61 2	0	25.37 6,87	119,7 21	6,658 69	18,22	0		4,650 5	1,189 83
1	44,9 999	281,41 9	0	23.92 1,22	124,6 64	6,822 97	18,4822	0		4,628 89	1,189 24
1	51,1 737	309,87 2	0	20.46 6,57	136,8 51	7,329 25	19,0798	0		4,599 53	1,187 94
1	61,3 805	356,82 6	0	15.98 0,93	154,6 25	8,315 72	19,8079	0		4,609 17	1,186 47
1	73,6 286	413,70 6	0	12.06 2,38	171,5 64	9,815 54	21,1516	0		4,684 89	1,182 74
1	77,8 546	433,59 4	0	10.98 0,74	176,0 92	10,43 61	21,6085	0		4,723 19	1,181 43
2	195, 712	0	12,5	999.9 99,41	0,074 5159	0,033 3877	- 160,974	0,9952 27	- 160,974	64,19 08	209,4 96
2	195, 722	0,6384 78	12,49 95	992.3 87,63	0,156 465	0,070 0813	- 163,757	0,9713 74	- 163,757	63,43 6	48,72 16
2	195, 726	0,9133 89	12,49 9	988.0 71,78	0,177 49	0,079 4894	- 164,363	0,9642 12	- 164,363	63,01 16	38,40 2
2	195, 726	0,9133 89	12,49 9	988.0 71,78	0,177 488	0,079 4886	- 164,365	0,9642 12	- 164,363	63,01 16	38,40 27
2	195, 732	1,2677 9	12,49 81	981.5 95,78	0,219 172	0,098 1339	- 148,384	0,9544 05	- 165,753	62,37 93	25,72 7
2	195, 742	1,8850 5	12,49 58	967.8 00,03	0,281 058	0,125 804	- 134,098	0,9388	- 167,659	61,05 1	16,37 05
2	195, 742	2,4882	12,49	951.9	0,336	0,150	-	0,9259	-	59,55	12,04

	752		26	89,49	24	479	124,737	13	168,968	88	88
2	195,762	3,07597	12,4887	934.949,52	0,386628	0,173027	-121,312	0,912139	-170,075	57,9854	9,63938
2	195,772	3,64786	12,484	917.278,66	0,4325	0,193583	-120,432	0,899047	-170,767	56,3909	8,16662
2	195,782	4,20396	12,4786	899.377,93	0,476276	0,213236	-120,205	0,886335	-171,23	54,8127	7,1468
2	195,792	4,74441	12,4726	881.542,32	0,518625	0,23229	-120,243	0,873816	-171,549	53,2762	6,39685
2	195,802	5,2697	12,466	863.933,53	0,5602	0,251045	-120,338	0,861213	-171,816	51,7932	5,81613
2	195,812	5,78043	12,4589	846.658,73	0,601129	0,269564	-120,445	0,848522	-172,051	50,37	5,35404
2	195,822	6,27723	12,4512	829.805,08	0,641385	0,287837	-120,527	0,835892	-172,238	49,0109	4,97971
2	195,832	6,76075	12,4429	813.416,36	0,681005	0,305883	-120,615	0,823267	-172,392	47,7161	4,67121
2	195,842	7,23162	12,4342	797.525,70	0,720073	0,323743	-120,699	0,810607	-172,532	46,4853	4,41243
2	195,852	7,69048	12,4251	782.152,12	0,758591	0,341418	-120,77	0,797957	-172,656	45,3169	4,19271
2	195,862	8,13795	12,4155	767.306,51	0,796571	0,358912	-120,827	0,785327	-172,77	44,2089	4,00407
2	195,872	8,57461	12,4055	752.980,31	0,834014	0,376227	-120,867	0,772772	-172,866	43,1581	3,84069
2	195,882	9,00102	12,395	739.164,46	0,870934	0,393365	-120,896	0,760292	-172,945	42,1615	3,69799
2	195,892	9,41773	12,3842	725.841,76	0,907345	0,410331	-120,92	0,74789	-173,007	41,2157	3,57244
2	195,902	9,82511	12,373	712.987,38	0,943326	0,427161	-120,933	0,735537	-173,062	40,3168	3,46086
2	195,912	10,2236	12,3615	700.583,59	0,978904	0,443866	-120,935	0,723221	-173,114	39,4621	3,36099
2	195,924	10,6908	12,3471	686.269,63	1,0211	0,463758	-120,926	0,708475	-173,18	38,4907	3,2541
2	195,938	11,2364	12,3293	669.879,66	1,07101	0,487398	-120,896	0,690903	-173,253	37,3977	3,14156
2	195,	11,871	12,30	651.2	1,129	0,515	-	0,6700	-	36,18	3,024

	955	2	7	84,73	86	431	120,828	44	173,327	19	97
2	195,976	12,6063	12,2789	630.380,56	1,19918	0,548653	-120,703	0,645328	-173,406	34,845	2,90588
2	196,001	13,4537	12,2437	607.132,76	1,28065	0,587974	-120,489	0,616164	-173,488	33,394	2,78601
2	196,031	14,4254	12,199	581.571,41	1,37623	0,63447	-120,148	0,58189	-173,572	31,8406	2,667
2	196,067	15,5328	12,1423	553.792,06	1,48829	0,689444	-119,636	0,541758	-173,662	30,2003	2,55024
2	196,11	16,7887	12,07	523.983,00	1,61958	0,754434	-118,889	0,495034	-173,761	28,4933	2,43682
2	196,161	18,2071	11,9775	492.408,76	1,77343	0,831309	-117,816	0,44106	-173,868	26,7428	2,32737
2	196,223	19,7994	11,859	459.359,56	1,95419	0,922482	-116,298	0,379225	-173,989	24,9709	2,22198
2	196,297	21,5783	11,7067	425.162,59	2,16749	1,03109	-114,159	0,309259	-174,121	23,1995	2,12017
2	196,387	23,5549	11,5108	390.149,97	2,4211	1,16143	-111,11	0,231724	-174,273	21,4481	2,0206
2	196,494	25,7364	11,259	354.653,07	2,72616	1,31963	-106,655	0,149171	-174,456	19,7335	1,92098
2	196,622	28,1335	10,9362	318.967,83	3,09952	1,51479	-99,9575	0,0681898	-174,673	18,0675	1,81795
2	196,776	30,7556	10,5252	283.375,92	3,56933	1,76157	-89,2429	0,00665684	-174,921	16,4579	1,70549
2	196,822	31,4962	10,3978	273.895,50	3,71821	1,83987	-85,0699	5,04941E-05	-174,977	16,0368	1,67166
2	196,822	31,4962	10,3978	273.895,50	3,71819	1,83985	-85,0755	0		16,0368	1,67168
2	196,961	33,6041	10,009	248.170,88	4,18147	2,0815	-71,6501	0		14,9069	1,57845
2	197,183	36,6861	9,37687	214.041,68	4,94036	2,46918	-53,7155	0		13,4301	1,47188
2	197,449	39,9933	8,61932	181.844,06	5,86947	2,93669	-36,8488	0		12,0473	1,38663
2	197,768	43,5231	7,73352	152.279,07	7,00035	3,50229	-22,029	0		10,7719	1,32166
2	198,	47,282	6,724	125.8	8,411	4,207	-	0		9,620	1,276

	152	9	07	25,57	82	45	10,3206			07	48
2	198,612	51,3155	5,60422	102.892,52	10,2983	5,15021	-1,95863	0		8,6335	1,24777
2	198,626	51,4297	5,57226	102.363,42	10,355	5,17859	-1,78612	0		8,61109	1,24722
2	198,626	51,4297	5,57226	102.363,42	10,355	5,17857	-1,78612	0		8,61113	1,24722
2	199,164	55,7467	4,46865	89.119,10	13,144	5,52333	2,1999	0		8,01748	1,23495
2	199,826	60,8213	3,4954	80.709,14	16,277	5,69009	4,67462	0		7,61996	1,22752
2	200,621	66,6969	2,71813	74.700,11	19,7346	5,74114	6,36029	0		7,31185	1,22261
2	201,575	73,5102	2,10028	69.963,69	23,5799	5,72275	7,64958	0		7,0446	1,21891
2	202,72	81,4093	1,57978	65.883,55	27,8808	5,70083	8,73829	0		6,79616	1,21581
2	204,094	90,5626	1,09459	62.105,78	32,713	5,73593	9,73123	0		6,55786	1,21299
2	205,742	101,165	0,601022	58.474,54	38,1606	5,86046	10,674	0		6,32793	1,21033
2	207,72	113,444	0,0750162	54.941,58	44,315	6,08214	11,5825	0		6,10699	1,20778
2	207,978	115,014	0,01	54.530,72	45,0919	6,11472	11,6877	0		6,08159	1,20748
2	207,978	115,014	0	54.530,72	45,0919	6,12821	11,6878	0		6,07814	1,20748
2	210,094	127,587	0	52.095,27	51,256	5,87142	12,3322	0		5,85717	1,20557
2	212,943	143,885	0	48.763,26	59,1721	5,70166	13,1817	0		5,60092	1,20309
2	216,361	162,603	0	44.815,71	68,2089	5,6563	14,1426	0		5,35016	1,20036
2	220,463	184,075	0	40.324,21	78,53	5,73177	15,1797	0		5,1183	1,19751
2	225,385	208,762	0	35.441,21	90,3508	5,92433	16,2422	0		4,91857	1,19469
2	231,	237,30	0	30.37	103,9	6,232	17,2717	0		4,760	1,192

	292	5		8,66	51	8				97	09
2	237,876	268,269	0	25.698,50	118,62	6,6265	18,161	0		4,65629	1,18997
2	237,876	268,269	0	25.698,50	118,62	6,62663	18,161	0		4,6562	1,18997
2	238,38	270,612	0	25.376,87	119,721	6,65869	18,22	0		4,6505	1,18983
2	240,711	281,419	0	23.921,22	124,664	6,82297	18,4822	0		4,62889	1,18924
2	246,885	309,872	0	20.466,57	136,851	7,32925	19,0798	0		4,59953	1,18794
2	257,092	356,826	0	15.980,93	154,625	8,31572	19,8079	0		4,60917	1,18647
2	269,34	413,706	0	12.062,38	171,564	9,81554	21,1516	0		4,68489	1,18274
2	273,566	433,594	0	10.980,74	176,092	10,4361	21,6085	0		4,72319	1,18143

