

SDG&E, June 13th, 2025

Regulating (R) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1971, Lenn.
In Response to Data Request, R15-01-008, 2025 Year Report
Appendix A: Rev. 03/27/2025

Note:
Use a formula-derived value with the formula used in the Annual Estimates column. Do not use a copy and paste-value.

All the of Annual Estimates Column, add a summation total to a cell for a column total, and then highlight orange.

If all the values and services are not current annually, use the date "Unmeasured/Pipeline Leak" for unmeasured.

Do not insert above ground MGA leaks in this file. Use Appendix B instead. Do continue to list above ground leaks associated with the Distribution Main & Service pipeline system.

After completing the file, use "Pipeline Leak" and "Unmeasured/Pipeline Leak" - fill in the date for "Pipeline Leak" consistently.

Sum Total Estimates from leaks entered over before 2024	13,139
Sum Total Estimates from Survey leaks discovered in 2024	154
Sum Total Estimates from CMV Leaks discovered in 2024	154
Grand Total of all 2024 estimates from all sources	13,447

Distribution Main & Service Pipeline Leaks:															Notes: No change to MGA leak data for this reporting cycle					
ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (years)	Pressure (psi)	Leak Grade	Updated Leak Grade or Downgraded Leak Grade	Abuse or Misuse of Valve Control	Leak Occurrence Method	Discovery Date (MM/DD/YYYY)	Re-Grade Date (MM/DD/YYYY)	Report Date (MM/DD/YYYY)	Scheduled Repair Date (MM/DD/YYYY)	Reason for Leak (Leakage & Repair)	Number of Days to Report	Exclusion Factor (MMBtu/Day)	Annual Estimates (MMBtu)	Explanatory Notes / Comments	
240370	92117	DB	PC	3"	88	Less than or equal to 2	2	0	0	S	12/15/2024		12/15/2024			1	1	0.1534	0.12	
240393	92102	MB	P	1 1/4"	62	Less than or equal to 2	2	0	0	S	6/29/2024		6/29/2024			234	63	0.1534	27.00	
240393	92112	MB	P	3"	94	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			201	1	0.1534	40.00	
240396	92103	DB	P	1 1/2" CTS	51	Less than or equal to 2	1	0	0	M	8/24/2024		8/24/2024			1	1	0.1534	0.12	
240396	92102	DB	P	3"	94	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			1	1	0.1534	0.12	
240402	92120	MB	P	2"	527	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			338	1	0.1534	30.00	
240402	92117	DB	PC	3"	88	Less than or equal to 2	2	0	0	S	9/24/2024		9/24/2024			268	1	0.1534	30.00	
240402	92103	MB	P	2"	51	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			146	2	0.1534	30.00	
240402	92107	DB	P	1 1/2" CTS	287	Less than or equal to 2	2	0	0	S	12/17/2024		12/17/2024			132	1	0.1534	30.00	
240407	92078	DB	P	1 1/2" PS	561	Less than or equal to 2	1	0	0	M	12/17/2024		12/17/2024			1	1	0.1534	0.12	
240405	92103	MB	P	2"	628	Less than or equal to 2	2	0	0	S	12/12/2024		12/12/2024			348	2	0.1534	40.12	
240405	92109	DB	P	1 1/2" CTS	561	Less than or equal to 2	1	0	0	S	12/16/2024		12/16/2024			1	1	0.1534	0.12	
240370	92021	MB	P	1 1/4"	568	Less than or equal to 2	2	0	0	S	11/12/2024		12/16/2024			137	12	0.1534	30.00	
240377	92068	DB	PC	3"	109	Less than or equal to 2	2	0	0	S	12/17/2024		12/17/2024			348	1	0.1534	40.12	
240404	92030	MB	PC	3"	851	Less than or equal to 2	2	0	0	M	12/17/2024		12/17/2024			10	10	0.1534	1.10	
240407	92111	MB	PC	3"	84	Less than or equal to 2	2	0	0	M	12/17/2024		12/17/2024			1	1	0.1534	0.12	
240400	92064	DB	P	1 1/4"	599	Less than or equal to 2	2	0	0	M	11/29/2024		11/29/2024			1	1	0.1534	0.12	
240396	92102	MB	P	2"	239	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			246	2	0.1534	30.00	
240400	92107	DB	P	1 1/2" CTS	246	Less than or equal to 2	1	0	0	S	12/16/2024		12/16/2024			351	1	0.1534	40.00	
240404	92014	MB	PC	3"	835	Greater than 60	2	0	0	S	10/24/2024		12/16/2024			124	27	0.1534	37.00	
240414	92077	DB	P	2"	591	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			346	1	0.1534	30.00	
240400	92071	DB	PC	3"	791	Less than or equal to 2	2	0	0	S	11/29/2024		12/16/2024			10	10	0.1534	30.00	
240404	92109	DB	PC	3"	875	Less than or equal to 2	2	0	0	M	12/16/2024		12/16/2024			1	1	0.1534	0.12	
240400	92106	DB	PC	3"	805	Less than or equal to 2	2	0	0	S	6/17/2024		7/24/2024			208	38	0.1534	23.77	
240400	92107	DB	PC	3"	1125	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			347	1	0.1534	40.04	
240396	92106	DB	P	2"	239	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			1	1	0.1534	0.12	
240400	92103	MB	PC	3"	1182	Less than or equal to 2	1	0	0	S	3/7/2024		3/7/2024			65	1	0.1534	1.04	
240402	92117	DB	PC	3"	805	Less than or equal to 2	2	0	0	S	7/16/2024		6/1/2024			214	17	0.1534	24.00	
240396	92106	DB	P	2"	239	Less than or equal to 2	2	0	0	S	12/16/2024		12/16/2024			1	1	0.1534	0.12	
240410	92011	MB	PC	3"	839	Less than or equal to 2	2	0	0	S	2/22/2024		4/29/2024			114	61	0.1534	13.15	
240402	92014	MB	PC	3"	779	Less than or equal to 2	2	0	0	S	4/29/2024		4/29/2024			110	5	0.1534	12.00	
240402	92103	MB	P	2"	624	Less than or equal to 2	1	0	0	S	5/2/2024		5/2/2024			124	2	0.1534	14.12	
240402	92109	DB	PC	3"	791	Less than or equal to 2	2	0	0	S	8/29/2024		9/1/2024			261	1	0.1534	30.00	
240420	92009	MB	P	2"	575	Less than or equal to 2	2	0	0	M	2/12/2024		2/20/2024			9	9	0.1534	1.04	
240401	92123	MB	PC	3"	809	Less than or equal to 2	2	0	0	S	8/29/2024		8/29/2024			2	1	0.1534	14.34	
240280	92011	DB	PC	3"	779	Less than or equal to 2	2	0	0	S	1/26/2024		1/26/2024			78	1	0.1534	0.80	
240372	92110	DB	PC	3"	827	Less than or equal to 2	2	0	0	S	12/12/2024		12/12/2024			346	1	0.1534	30.00	
240372	92106	DB	PC	3"	827	Less than or equal to 2	2	0	0	S	11/29/2024		11/29/2024			1	1	0.1534	0.12	
240404	92078	DB	PC	3"	712	Less than or equal to 2	2	0	0	S	5/29/2024		5/29/2024			144	1	0.1534	14.77	
240396	92103	DB	PC	3"	827	Less than or equal to 2	2	0	0	M	2/20/2024		2/20/2024			1	1	0.1534	0.12	
240396	92102	DB	P	1 1/2"	681	Less than or equal to 2	2	0	0	S	10/2/2024		10/2/2024			18	1	0.1534	1.04	
240396	92106	DB	P	1 1/2"	681	Less than or equal to 2	2	0	0	S	2/20/2024		2/20/2024			31	1	0.1534	0.80	
240396	92117	DB	PC	3"	805	Less than or equal to 2	2	0	0	S	10/2/2024		10/2/2024			81	46	0.1534	18.00	
240406	92102	DB	PC	3"	791	Less than or equal to 2	2	0	0	S	6/1/2024		6/1/2024			275	21	0.1534	31.75	
240406	92106	DB	PC	3"	887	Less than or equal to 2	2	0	0	S	4/29/2024		4/29/2024			139	13	0.1534	13.15	
240402	92104	MB	PC	2"	627	Less than or equal to 2	2	0	0	M	4/19/2024		6/12/2024			56	56	0.1534	6.48	
240402	92113	MB	PC	3"	791	Less than or equal to 2	2	0	0	S	2/20/2024		2/20/2024			83	1	0.1534	1.04	
240383	92102	DB	P	1 1/2"	802	Less than or equal to 2	2	0	0	S	4/27/2024		6/16/2024			170	53	0.1534	18.61	
240374	92109	DB	PC	3"	812	Less than or equal to 2	2	0	0	S	6/1/2024		6/1/2024			257	61	0.1534	27.00	
240406	92037	MB	P	3"	527	Less than or equal to 2	2	0	0	S	7/16/2024		7/16/2024			213	16	0.1534	24.75	
240404	92011	DB	PC	3"	681	Less than or equal to 2	2	0	0	S	3/16/2024		3/16/2024			78	1	0.1534	0.80	
240396	92103	MB	PC	3"	1182	Less than or equal to 2	1	0	0	S	3/7/2024		3/7/2024			65	1	0.1534	1.04	
240374	92037	DB	PC	3"	767	Less than or equal to 2	2	0	0	S	9/1/2024		9/1/2024			289	41	0.1534	33.34	
240402	92106	DB	PC	3"	847	Less than or equal to 2	2	0	0	S	10/19/2024		10/19/2024			89	1	0.1534	1.04	
240418	92027	DB	P	1 1/2"	527	Less than or equal to 2	2	0	0	M	2/20/2024		2/20/2024			1	1	0.1534	0.12	
240400	92076	DB	PC	3"	551	Less than or equal to 2	2	0	0	S	3/2/2024		3/2/2024			1	1	0.1534	0.12	
240704	92103	MB	P	1 1/4"	547	Less than or equal to 2	2	0	0	S	4/29/2024		4/29/2024			96	2	0.1534	11.08	
240400	92040	MB	PC	3"	1020	Less than or equal to 2	2	0	0	S	2/22/2024		2/22/2024			83	1	0.1534	1.04	
240323	92027	MB	PC	3"	323	Less than or equal to 2	2	0	0	S	2/19/2024		6/11/2024			153	124	0.1534	18.61	
240377	92014	MB	PC	3"	802	Less than or equal to 2	2	0	0	S	4/27/2024		4/27/2024			2	2	0.1534	0.12	
240372	92123	DB	PC	3"	761	Less than or equal to 2	1	0	0	S	8/29/2024		8/29/2024			243	1	0.1534	28.00	
240372	92102	MB	PC	3"	779	Less than or equal to 2	2	0	0	S	10/2/2024		10/2/2024			89	1	0.1534	14.77	
240377	92116	DB	P	1 1/2" CTS	383	Less than or equal to 2	2	0	0	S	11/12/2024		11/12/2024			317	1	0.1534	36.25	
240374	92106	DB	PC	3"	561	Less than or equal to 2	2	0	0	S	9/2/2024		9/2/2024							

241346	9123	DB	PC	3 1/2"	805	Less than or equal to	1	0	M	6/27/2004	6/27/2004	2	1	0.1554	0.12
241367	9120	DB	PC	1 1/2" CT5	479	Less than or equal to	1	0	M	2/6/2004	2/6/2004	276	1	0.1224	0.10
241421	9190	MB	P	2"	611	Less than or equal to	2	0	M	7/9/2004	7/9/2004	13	13	0.1534	1.50
241494	9111	MB	PC	3 1/4"	875	Less than or equal to	1	0	M	6/29/2004	6/29/2004	118	20	0.1534	0.10
241501	9194	DB	PC	3 1/4"	802	Less than or equal to	1	0	M	3/6/2004	3/6/2004	1	1	0.1534	0.12
241523	9104	MB	PC	4"	18	Less than or equal to	1	0	M	2/12/2004	2/12/2004	1	1	0.1534	0.12
241559	9111	MB	PC	3 1/4"	1079	Less than or equal to	2	0	M	4/22/2004	4/22/2004	225	1	0.1534	0.10
241595	9111	MB	PC	3 1/4"	887	Less than or equal to	1	0	S	6/23/2004	6/23/2004	179	15	0.1534	0.80
241601	9118	DB	P	1 1/2" CT5	199	Less than or equal to	1	0	M	10/9/2004	10/9/2004	1	1	0.1534	0.12
241603	9115	DB	PC	3 1/4"	887	Less than or equal to	1	0	S	9/19/2004	9/19/2004	263	1	0.1534	0.14
241764	9107	MB	PC	3 1/4"	811	Less than or equal to	2	0	S	10/9/2004	10/9/2004	211	27	0.1534	4.70
241824	9104	DB	PC	3 1/4"	168	Less than or equal to	1	0	S	1/9/2004	1/9/2004	9	1	0.1534	0.10
241836	9107	MB	PC	3 1/4"	1003	Less than or equal to	1	0	S	11/11/2004	11/11/2004	116	1	0.1534	0.40
241843	9113	MB	P	1 1/2"	767	Less than or equal to	1	0	S	4/29/2004	4/29/2004	116	10	0.1534	10.30
241730	9107	MB	PC	3 1/4"	779	Less than or equal to	1	0	S	12/1/2004	12/1/2004	242	1	0.1534	1.60
241900	9114	MB	P	3"	623	Less than or equal to	2	0	S	7/1/2004	7/1/2004	233	15	0.1534	28.80
241781	9101	DB	PC	3 1/4"	899	Less than or equal to	1	0	S	8/29/2004	8/29/2004	276	25	0.1534	16.40
241863	9101	DB	PC	3 1/4"	635	Less than or equal to	2	0	S	8/21/2004	8/21/2004	242	9	0.1534	27.00
241888	9122	DB	PC	3 1/4"	1317	Less than or equal to	2	0	M	2/19/2004	2/19/2004	2	2	0.1534	0.10
241900	9113	DB	PC	3 1/4"	711	Less than or equal to	1	0	M	4/12/2004	4/12/2004	263	172	0.1534	30.34
241337	9194	DB	PC	3 1/4"	779	Less than or equal to	1	0	S	6/24/2004	7/2/2004	188	9	0.1534	21.23
241905	9197	MB	PC	2"	778	Less than or equal to	1	0	S	8/9/2004	8/9/2004	211	27	0.1534	20.15
241477	9111	DB	PC	3 1/4"	795	Less than or equal to	2	0	S	12/2/2004	8/27/2004	240	37	0.0005	0.12
241573	9120	DB	PC	3 1/4"	615	Less than or equal to	1	0	S	12/2/2004	12/2/2004	214	27	0.1534	20.15
2410972	91071	DB	PC	3 1/4"	795	Less than or equal to	1	0	M	10/1/2004	3/1/2004	1	1	0.1534	0.12
241061	9120	MB	PC	3 1/4"	683	Less than or equal to	1	0	S	12/1/2004	12/1/2004	1	1	0.1534	1.60
241407	91069	DB	P	1 1/2" CT5	575	Less than or equal to	1	0	M	12/16/2004	12/16/2004	353	1	0.1534	46.70
241174	91012	MB	PC	3 1/4"	887	Less than or equal to	2	0	S	1/2/2004	1/2/2004	71	17	0.1534	0.10
241196	9115	DB	PC	3 1/4"	899	Less than or equal to	2	0	M	10/29/2004	10/29/2004	1	1	0.1534	0.12
2410775	91014	MB	PC	1 1/2"	1317	Less than or equal to	2	0	S	1/19/2004	1/11/2004	11	1	0.1534	1.27
241180	91017	DB	PC	3 1/4"	575	Less than or equal to	1	0	S	10/21/2004	11/10/2004	313	19	0.1534	10.11
2410951	9114	MB	P	1 1/4"	551	Less than or equal to	1	0	M	2/8/2004	2/8/2004	1	1	0.1534	0.12
241174	9106	DB	PC	3 1/4"	623	Less than or equal to	1	0	S	9/1/2004	9/1/2004	183	29	0.1534	21.11
241013	91128	DB	P	1 1/4"	487	Less than or equal to	1	0	M	9/6/2004	6/13/2004	164	7	0.1534	10.92
241307	91075	MB	PC	3 1/4"	687	Less than or equal to	2	0	M	12/1/2004	7/1/2004	1	1	0.1534	0.10
241310	91130	DB	PC	3 1/4"	487	Less than or equal to	1	0	S	2/1/2004	12/1/2004	43	1	0.1534	4.90
241012	9111	MB	PC	3 1/4"	611	Less than or equal to	1	0	S	8/21/2004	9/29/2004	270	37	0.1534	11.11
241190	9107	MB	PC	2"	865	Less than or equal to	1	0	S	10/2/2004	11/14/2004	119	21	0.1534	30.80
241130	91109	MB	PC	2"	743	Less than or equal to	1	0	S	1/1/2004	12/2/2004	128	1	0.0010	0.10
241099	91110	DB	PC	3 1/4"	911	Less than or equal to	2	0	S	5/29/2004	4/4/2004	156	16	0.1534	10.00
241181	91109	MB	PC	3 1/4"	791	Less than or equal to	2	0	M	7/19/2004	8/29/2004	233	25	0.1534	10.80
241005	91010	MB	PC	1"	755	Less than or equal to	2	0	M	4/25/2004	4/25/2004	53	15	0.1534	6.11
2410472	91113	MB	PC	2"	1091	Less than or equal to	1	0	S	3/22/2004	4/22/2004	113	12	0.1534	12.04
241040	91101	DB	PC	3 1/4"	791	Less than or equal to	1	0	S	2/22/2004	2/26/2004	80	80	0.1534	0.10
2410379	91109	DB	PC	3 1/4"	839	Less than or equal to	1	0	S	2/12/2004	2/12/2004	4	5	0.1534	5.08
241047	91002	DB	PC	3 1/4"	611	Less than or equal to	2	0	S	1/29/2004	1/30/2004	79	40	0.1534	9.11
241001	91107	DB	PC	1 1/4"	863	Less than or equal to	1	0	S	5/2/2004	6/27/2004	179	38	0.1534	20.05
241013	91101	DB	PC	3 1/4"	791	Less than or equal to	1	0	S	2/12/2004	1/14/2004	74	1	0.1534	9.46
241038	91114	DB	PC	3 1/4"	168	Less than or equal to	2	0	S	7/19/2004	7/24/2004	206	15	0.1534	23.77
241021	91081	MB	P	1 1/4"	527	Less than or equal to	1	0	M	1/22/2004	1/22/2004	1	1	0.1534	0.12
241142	91111	MB	PC	2"	805	Less than or equal to	1	0	S	1/27/2004	2/16/2004	47	21	0.1534	5.40
241078	91090	DB	PC	3 1/4"	683	Less than or equal to	2	0	S	8/12/2004	8/12/2004	234	10	0.1534	20.15
241104	91105	DB	PC	3 1/4"	887	Less than or equal to	2	0	S	7/1/2004	8/21/2004	237	1	0.1534	1.60
241122	91107	MB	PC	3 1/4"	779	Less than or equal to	1	0	S	1/1/2004	1/1/2004	1	1	0.1534	0.12
2410422	91122	DB	P	2"	755	Less than or equal to	1	0	S	10/1/2004	10/1/2004	286	1	0.1534	10.00
241189	91113	MB	PC	2"	612	Less than or equal to	2	0	S	9/6/2004	6/13/2004	165	10	0.1534	10.00
241140	91017	MB	PC	2"	791	Less than or equal to	1	0	S	9/12/2004	9/12/2004	147	1	0.0011	1.94
241085	91107	DB	PC	3 1/4"	635	Less than or equal to	1	0	S	12/19/2004	12/19/2004	304	1	0.1534	40.84
241042	91113	MB	PC	3 1/4"	1091	Less than or equal to	1	0	S	3/22/2004	3/22/2004	82	1	0.1534	0.10
241044	91021	MB	PC	3 1/4"	767	Less than or equal to	1	0	S	8/19/2004	10/10/2004	284	14	0.1534	12.77
241044	91071	DB	PC	3 1/4"	563	Less than or equal to	1	0	M	12/1/2004	11/18/2004	2	2	0.1534	0.10
241040	91111	DB	PC	3 1/4"	323	Less than or equal to	1	0	S	7/1/2004	7/1/2004	199	1	0.1534	22.96
241061	91017	DB	PC	3 1/4"	1005	Less than or equal to	1	0	M	3/9/2004	3/9/2004	1	1	0.1534	0.10
241040	91107	DB	P	1 1/2" CT5	299	Less than or equal to	1	0	S	5/16/2004	5/16/2004	137	1	0.1534	15.81
241042	91109	DB	PC	3 1/4"	805	Less than or equal to	1	0	S	2/12/2004	2/12/2004	75	1	0.1534	0.10
241074	91103	MB	PC	1 1/2"	1110	Less than or equal to	2	0	M	9/7/2004	9/7/2004	1	1	0.1534	0.12
241011	91110	DB	PC	3 1/4"	811	Less than or equal to	1	0	S	4/12/2004	4/12/2004	1	1	0.1534	0.10
241023	91014	DB	PC	3 1/4"	671	Less than or equal to	1	0	M	1/4/2004	1/4/2004	4	1	0.1534	0.46
241037	91107	DB	PC	3 1/4"	875	Less than or equal to	2	0	S	9/21/2004	10/7/2004	281	21	0.1534	10.42
241011	91107	DB	PC	3 1/4"	707	Less than or equal to	1	0	M	10/29/2004	10/29/2004	1	1	0.1534	0.12
241030	91111	DB	PC	3 1/4"	803	Less than or equal to	1	0	S	11/14/2004	11/14/2004	9	1	0.1534	0.35
241031	91041	DB	PC	3 1/4"	811	Less than or equal to	1	0	S	1/26/2004	1/26/2004	1	1	0.1534	0.12
241790	91014	DB	PC	3 1/4"	1005	Less than or equal to	1	0	S	4/11/2004	4/11/2004	102	1	0.1534	11.77
241011	91110	DB	PC	3 1/4"	1005	Less than or equal to	1	0	S	4/10/2004	4/10/2004	48	1	0.1534	1.80
241047	91090	MB	PC	2"	710	Less than or equal to	2	0	S	1/19/2004	1/19/2004	80	15	0.1534	1.90
241013	91114	MB	PC	3 1/4"	887	Less than or equal to	2	0	S	1/19/2004	1/19/2004	16	1	0.1534	1.60
241014	91115	DB	PC	1"	899	Less than or equal to	2	0	M	1/31/2004	1/31/2004	14	14	0.1534	1.60
241015	91106	MB	PC	1 1/2" CT5	512	Less than or equal to	2	0	S	1/21/2004	1/21/2004	24	1	0.1534	1.60
241021	91130	MB	P	2"	479	Less than or equal to	2	0	S	2/9/2004	3/7/2004	87	49	0.1534	10.04
241021	91134	MB	PC	3 1/4"	811	Less than or equal to	2	0	S	2/24/2004	2/24/2004	88	39	0.1534	10.10
2411013	91107	DB	PC	3 1/4"	612	Less than or equal to	1	0	S	7/2/2004	7/2/2004	280	1	0.1534	20.07
241038	91109	DB	PC	2"	779	Less than or equal to	1	0	S	7/19/2004	7/19/2004	108	1	0.1534	10.00
241046	91109	DB	PC	2"	611	Less than or equal to	1	0	S	6/9/2004	6/9/2004	108	1	0.1534	10.00
241047	91103	MB	PC	2"	899	Less than or equal to	1	0	S	6/27/2004	6/13/2004	72	46	0.1534	20.07
241013	91111	DB	PC	3 1/4"	299	Less than or equal to	1	0	S	4/2/2004	4/2/2004	71	71	0.1534	0.10
241018	91110	DB	P	1 1/4"	611	Less than or equal to	1	0	S	8/2/2004	8/2/2004	156	64	0.1534	10.

242128	9205	DB	PC	3"	895	Less than or equal to 50	2	0	M	5/26/2004	5/26/2004	4	4	0.1554	0.46
242128	9204	DB	PC	3"	893	Less than or equal to 50	2	0	M	5/26/2004	5/26/2004	2	2	0.1224	0.20
242128	9204	DB	PC	3"	875	Less than or equal to 50	2	0	S	5/26/2004	5/26/2004	67	28	0.1524	7.75
242128	9204	DB	PC	3"	867	Less than or equal to 50	2	0	S	5/26/2004	5/26/2004	275	17	0.0006	26
242182	9205	DB	PC	3"	551	Less than or equal to 50	2	0	S	8/26/2004	9/18/2004	262	20	0.1534	30.23
242187	9204	DB	PC	3"	851	Less than or equal to 50	2	0	S	10/26/2004	11/12/2004	317	18	0.0078	21.50
242182	9204	DB	PC	3"	847	Less than or equal to 50	2	0	S	7/22/2004	7/22/2004	254	18	0.1534	15.54
242203	92083	MS	P	1 1/4"	553	Less than or equal to 50	2	0	S	9/23/2004	10/26/2004	282	20	0.0542	10.20
242204	9207	DB	PC	3"	731	Less than or equal to 50	2	0	S	10/21/2004	11/4/2004	809	18	0.1534	16.40
242145	92042	DB	PC	3"	839	Less than or equal to 50	2	0	S	1/27/2004	3/10/2004	487	21	0.1554	5.43
242181	9207	MS	P	1 1/2"	787	Less than or equal to 50	2	0	S	7/26/2004	8/6/2004	248	37	0.1534	17.34
242137	9207	DB	PC	3"	495	Less than or equal to 50	2	0	S	6/9/2004	7/3/2004	149	25	0.1554	21.34
242190	92075	MS	P	1"	803	Less than or equal to 50	2	0	S	1/19/2004	3/13/2004	451	27	0.1534	4.86
242150	92136	MS	P	1 1/4"	575	Less than or equal to 50	2	0	S	11/19/2004	11/18/2004	333	6	0.1534	17.27
242149	9212	DB	PC	3"	743	Less than or equal to 50	2	0	S	1/26/2004	3/6/2004	108	5	0.1534	28.86
242385	92090	MS	P	1 1/2"	793	Less than or equal to 50	2	0	M	11/19/2004	11/19/2004	5	5	0.1534	0.38
242147	92107	MS	PC	1 1/4"	1148	Less than or equal to 50	2	0	S	1/26/2004	2/26/2004	1	1	0.1534	0.10
242405	92115	MS	PC	1 1/2"	973	Less than or equal to 50	2	0	M	1/26/2004	1/26/2004	2	2	0.1534	0.23
242379	92090	MS	PC	1 1/4"	560	Less than or equal to 50	2	0	S	8/23/2004	8/23/2004	233	6	0.1534	26.88
242121	92102	DB	PC	3"	779	Less than or equal to 50	2	0	S	4/18/2004	4/18/2004	170	17	0.1534	18.11
242125	92007	MS	PC	4"	623	Less than or equal to 50	2	0	M	1/25/2004	1/25/2004	1	1	0.1524	0.12
242454	9207	DB	P	1 1/2" PS	440	Less than or equal to 50	2	0	S	7/26/2004	7/26/2004	211	14	0.1534	24.34
242573	92008	DB	PC	3"	707	Less than or equal to 50	2	0	S	6/22/2004	10/2/2004	276	42	0.1554	16.84
242524	92008	DB	PC	3"	745	Less than or equal to 50	2	0	S	7/26/2004	7/26/2004	229	18	0.1534	26.42
242479	92041	DB	P	1 1/2" CTS	527	Less than or equal to 50	2	0	M	11/26/2004	11/26/2004	4	4	0.1524	0.40
242121	9207	DB	PC	3"	743	Less than or equal to 50	2	0	S	1/26/2004	3/6/2004	6	5	0.1534	28.86
242012	92041	DB	PC	3"	923	Less than or equal to 50	2	0	M	10/9/2004	11/4/2004	27	27	0.1534	0.12
242149	92045	MS	P	2"	599	Less than or equal to 50	2	0	S	1/26/2004	2/26/2004	5	5	0.1524	0.10
242405	92042	MS	PC	1"	887	Less than or equal to 50	2	0	S	1/26/2004	1/26/2004	44	27	0.1534	5.08
242124	92115	MS	PC	1 1/2"	1159	Less than or equal to 50	2	0	S	4/26/2004	7/10/2004	193	33	0.1534	25.10
242121	92025	MS	PC	2"	569	Less than or equal to 50	1	0	S	1/21/2004	1/14/2004	110	7	0.1534	15.60
242872	92120	MS	PC	3"	815	Less than or equal to 50	2	0	S	9/23/2004	10/21/2004	295	31	0.1534	16.44
242874	92084	MS	P	1 1/4"	606	Less than or equal to 50	2	0	S	4/26/2004	4/26/2004	99	2	0.1534	11.42
242474	92117	DB	PC	3"	735	Less than or equal to 50	2	0	S	7/26/2004	8/23/2004	236	37	0.0897	2.29
242814	92115	DB	PC	3"	815	Less than or equal to 50	2	0	S	4/17/2004	4/17/2004	268	133	0.1534	16.80
242873	92090	MS	PC	1 1/2"	685	Less than or equal to 50	2	0	S	1/27/2004	3/21/2004	142	16	0.1534	16.38
242170	92108	DB	PC	3"	793	Less than or equal to 50	2	0	S	4/23/2004	4/23/2004	178	5	0.1534	17.74
242131	92103	MS	PC	2"	751	Less than or equal to 50	2	0	S	1/26/2004	1/26/2004	2	2	0.1534	16.80
242181	92115	DB	PC	3"	1087	Less than or equal to 50	2	0	S	4/26/2004	4/26/2004	219	40	0.1534	20.27
242178	92105	MS	PC	4"	827	Less than or equal to 50	2	0	S	11/19/2004	11/19/2004	324	12	0.1534	17.38
242146	92121	MS	P	3"	613	Less than or equal to 50	2	0	S	11/17/2004	11/17/2004	236	5	0.1534	26.25
242761	92104	DB	PC	3"	851	Less than or equal to 50	2	0	S	4/26/2004	7/22/2004	204	35	0.1534	23.54
242140	92100	DB	PC	3"	875	Less than or equal to 50	2	0	S	6/23/2004	9/2/2004	247	83	0.1534	26.50
242477	92050	DB	PC	1 1/2"	587	Less than or equal to 50	2	0	S	10/2/2004	10/2/2004	112	112	0.1534	16.74
242120	9207	MS	PC	2"	827	Less than or equal to 50	2	0	S	7/26/2004	9/5/2004	249	19	0.1524	26.73
242420	9207	DB	PC	3"	630	Less than or equal to 50	2	0	S	7/26/2004	7/26/2004	107	1	0.1534	17.74
242841	92103	DB	P	1 1/2" CTS	767	Less than or equal to 50	1	0	S	5/7/2004	5/7/2004	128	7	0.1524	16.77
242847	92103	DB	PC	3"	461	Less than or equal to 50	2	0	S	4/26/2004	4/26/2004	1	1	0.1534	17.84
242111	92104	DB	PC	3"	624	Less than or equal to 50	2	0	S	4/26/2004	5/20/2004	109	24	0.1534	22.96
242818	92107	DB	PC	3"	490	Less than or equal to 50	2	0	S	4/26/2004	5/20/2004	1	1	0.1534	21.27
242820	92026	MS	P	1 1/4"	551	Less than or equal to 50	1	0	S	9/16/2004	9/16/2004	260	1	0.1534	16.00
242174	9207	DB	PC	3"	875	Less than or equal to 50	2	0	S	1/26/2004	1/26/2004	207	10	0.1534	16.80
242826	92113	DB	PC	3"	869	Less than or equal to 50	2	0	S	2/26/2004	2/26/2004	123	64	0.1534	14.39
242774	92090	MS	PC	3"	867	Less than or equal to 50	2	0	S	9/2/2004	9/2/2004	271	22	0.1534	16.80
242870	9207	MS	PC	1 1/2"	743	Less than or equal to 50	1	0	S	10/26/2004	10/17/2004	291	2	0.1534	16.57
242104	92107	DB	PC	3"	995	Less than or equal to 50	2	0	S	5/26/2004	5/26/2004	151	1	0.1534	17.47
242104	92107	DB	P	1 1/2" CTS	611	Less than or equal to 50	2	0	S	4/22/2004	4/22/2004	18	18	0.1534	16.80
232774	92117	DB	PC	3"	539	Less than or equal to 50	2	0	M	1/27/2004	1/26/2004	50	10	0.1534	16.40
242177	92117	DB	PC	3"	177	Less than or equal to 50	2	0	S	1/26/2004	1/26/2004	1	1	0.1534	0.12
242008	9207	MS	PC	2"	751	Less than or equal to 50	2	0	S	1/26/2004	3/2/2004	63	37	0.1534	7.50
242763	92123	DB	PC	3"	743	Less than or equal to 50	2	0	S	10/26/2004	10/26/2004	282	24	0.1534	25.14
242003	92113	MS	PC	6"	1220	Less than or equal to 50	2	0	S	1/24/2004	1/24/2004	142	64	0.1534	16.27
242106	9207	DB	PC	3"	779	Less than or equal to 50	2	0	S	1/26/2004	1/26/2004	1	1	0.1534	16.80
242103	92113	MS	P	1 1/4"	611	Less than or equal to 50	2	0	S	5/26/2004	5/26/2004	184	48	0.1534	21.29
242409	92041	DB	PC	3"	857	Less than or equal to 50	2	0	S	4/26/2004	4/26/2004	99	20	0.1524	22.27
242827	92106	DB	PC	3"	887	Less than or equal to 50	1	0	S	4/21/2004	4/21/2004	102	1	0.1524	11.77
242404	9207	DB	PC	3"	793	Less than or equal to 50	2	0	M	7/26/2004	8/26/2004	229	28	0.1534	27.17
242811	92115	DB	PC	3"	887	Less than or equal to 50	2	0	M	2/1/2004	2/1/2004	13	13	0.1534	1.50
242175	92116	DB	PC	3"	1087	Less than or equal to 50	2	0	S	1/27/2004	1/17/2004	17	1	0.1524	1.86
242104	92020	MS	P	2"	451	Less than or equal to 50	2	0	S	9/26/2004	10/26/2004	266	1	0.1534	16.80
242105	92054	DB	PC	3"	767	Less than or equal to 50	2	0	S	10/26/2004	11/26/2004	13	16	0.1534	16.11
242128	92054	DB	PC	3"	973	Less than or equal to 50	2	0	S	1/26/2004	1/26/2004	80	2	0.1534	1.46
242004	92113	MS	PC	2"	1165	Less than or equal to 50	2	0	S	1/26/2004	1/26/2004	124	47	0.1534	14.31
242827	92100	MS	PC	2"	823	Less than or equal to 50	2	0	S	5/23/2004	7/26/2004	176	10	0.1534	16.80
242103	92104	DB	PC	3"	751	Less than or equal to 50	2	0	S	4/21/2004	8/26/2004	47	47	0.1534	20.27
242104	92053	DB	PC	3"	887	Less than or equal to 50	2	0	S	1/26/2004	4/26/2004	118	1	0.1534	11.36
242160	92106	DB	PC	3"	815	Less than or equal to 50	2	0	S	4/24/2004	7/13/2004	193	28	0.1534	22.27
242177	92041	DB	PC	3"	393	Less than or equal to 50	2	0	S	5/7/2004	5/7/2004	1	1	0.1534	0.12
242422	92129	DB	P	1 1/2" CTS	491	Less than or equal to 50	2	0	S	2/22/2004	3/7/2004	63	13	0.1534	17.34
242104	92113	DB	PC	3"	767	Less than or equal to 50	2	0	S	8/26/2004	8/26/2004	221	1	0.1534	26.50
242170	92106	DB	PC	3"	1087	Less than or equal to 50	1	0	S	4/26/2004	4/26/2004	170	1	0.1534	16.80
242479	92114	DB	PC	3"	148	Less than or equal to 50	2	0	M	4/26/2004	4/26/2004	60	60	0.1524	0.62
242820	9207	DB	PC	3"	911	Less than or equal to 50	2	0	S	4/21/2004	4/21/2004	5	5	0.1534	17.84
242827	9207	DB	PC	3"	647	Less than or equal to 50	1	0	M	2/27/2004	2/27/2004	1	1	0.1524	0.12
242148	92106	DB	PC	3"	1028	Less than or equal to 50	2	0	S	4/26/2004	4/26/2004	1	1	0.1534	16.8

2409088	92106	DB	PC	3/4"	851	Less than or equal to 50	1	0	S	4/26/2024	4/26/2024	117	1	0.1154	13.50
2412009	92102	DB	P	2"	623	Less than or equal to 50	1	0	S	6/10/2024	6/10/2024	168	1	0.1154	21.10
2404204	92122	DB	PC	3/4"	743	Less than or equal to 50	2	0	S	10/21/2024	10/24/2024	208	13	0.1154	34.38
2405905	92062	DB	P	1/2" CTS	629	Less than or equal to 50	2	0	S	4/20/2024	4/20/2024	208	42	0.1154	21.20
2412006	92106	MDB	PC	2"	275	Less than or equal to 50	2	0	S	4/26/2024	4/26/2024	184	20	0.1154	21.23
2402482	92127	DB	P	2"	611	Less than or equal to 50	2	0	S	1/26/2024	2/12/2024	143	26	0.1154	14.86
2413921	92100	DB	PC	3/4"	599	Less than or equal to 50	2	0	S	7/20/2024	7/20/2024	211	1	0.1154	26.84
2402477	92002	MDB	PC	1 1/4"	76	Less than or equal to 50	2	0	M	10/21/2024	10/12/2024	1	1	0.1154	0.12
2404601	92000	DB	P	1 1/4"	76	Less than or equal to 50	2	0	S	1/21/2024	1/21/2024	2	1	0.1154	0.12
2403495	92104	MDB	PC	2"	90	Less than or equal to 50	2	0	S	9/29/2024	9/30/2024	274	2	0.1154	16.61
2404701	92037	DB	PC	3/4"	830	Less than or equal to 50	2	0	S	9/17/2024	10/14/2024	288	38	0.1154	31.24
2403851	92008	DB	PC	3/4"	767	Less than or equal to 50	2	0	S	8/15/2024	8/15/2024	128	1	0.1154	26.31
2408864	92101	DB	P	1"	148	Less than or equal to 50	2	0	S	4/26/2024	4/26/2024	150	37	0.1154	17.10
2413090	92045	DB	P	1 1/4"	767	Less than or equal to 50	2	0	S	1/29/2024	1/29/2024	208	32	0.1154	21.77
2411491	92037	DB	PC	3/4"	689	Less than or equal to 50	2	0	S	10/21/2024	10/21/2024	190	30	0.0920	30.00
2403511	92114	MDB	PC	2"	887	Less than or equal to 50	2	0	S	9/7/2024	9/7/2024	63	1	0.1154	7.00
2403501	92037	DB	PC	1 1/4"	211	Less than or equal to 50	2	0	S	9/17/2024	9/17/2024	148	1	0.1154	16.10
2402961	92107	DB	PC	3/4"	683	Less than or equal to 50	1	0	M	2/7/2024	2/7/2024	2	1	0.1154	0.12
2402491	92106	MDB	PC	1 1/2"	1019	Less than or equal to 50	2	0	S	11/29/2024	11/29/2024	301	2	0.1154	36.18
2402270	92084	MDB	PC	2"	421	Less than or equal to 50	1	0	S	11/10/2024	11/11/2024	116	8	0.1154	16.46
2404031	92045	MDB	P	1 1/4"	767	Less than or equal to 50	2	0	S	7/24/2024	7/24/2024	208	1	0.1154	21.77
2407701	92118	MDB	P	1 1/4"	599	Less than or equal to 50	2	0	S	4/20/2024	4/20/2024	110	23	0.1154	11.27
2405891	92056	MDB	P	3/4"	565	Less than or equal to 50	2	0	S	8/9/2024	9/3/2024	247	27	0.1154	28.20
2413871	92041	MDB	P	2"	700	Less than or equal to 50	2	0	S	7/20/2024	7/20/2024	197	18	0.1154	21.24
2402149	92020	MDB	PC	2"	805	Less than or equal to 50	2	0	S	12/7/2024	12/7/2024	340	1	0.1154	39.23
2410254	92120	MDB	PC	2"	621	Less than or equal to 50	1	0	S	9/10/2024	9/10/2024	200	1	0.1154	16.20
2402611	92107	DB	PC	3/4"	765	Less than or equal to 50	2	0	S	12/12/2024	12/12/2024	347	1	0.1154	40.04
2401907	92056	DB	P	1 1/4"	211	Less than or equal to 50	2	0	S	3/12/2024	3/12/2024	2	2	0.1154	0.20
2403961	92101	MDB	P	2"	474	Less than or equal to 50	2	0	S	9/15/2024	9/16/2024	76	2	0.1154	8.77
2411111	92100	MDB	PC	4"	1175	Less than or equal to 50	2	0	S	8/7/2024	8/7/2024	109	1	0.1154	36.18
2411911	92100	DB	P	2"	151	Less than or equal to 50	2	0	S	8/9/2024	8/9/2024	241	20	0.1154	27.81
2407280	92105	MDB	PC	3/4"	743	Less than or equal to 50	2	0	S	4/26/2024	5/30/2024	151	58	0.1154	17.42
2414661	92037	DB	PC	1 1/2"	770	Less than or equal to 50	2	0	S	7/20/2024	7/20/2024	202	1	0.1154	21.81
2403889	92037	MDB	PC	1 1/2"	923	Less than or equal to 50	1	0	S	11/29/2024	11/29/2024	325	1	0.1154	37.10
2403911	92056	MDB	P	1 1/4"	611	Less than or equal to 50	1	0	M	2/10/2024	2/10/2024	1	1	0.1154	0.12
2413214	92103	DB	PC	1"	755	Less than or equal to 50	2	0	S	4/27/2024	8/9/2024	221	45	0.1154	25.20
2413171	92114	DB	PC	2"	611	Less than or equal to 50	2	0	S	4/20/2024	8/12/2024	214	1	0.1154	41.88
2414084	92041	MDB	P	2"	626	Less than or equal to 50	1	0	S	7/11/2024	7/11/2024	191	1	0.1154	22.27
2403817	92000	DB	PC	1"	719	Less than or equal to 50	2	0	M	3/10/2024	3/10/2024	107	37	0.1154	4.27
2407319	92011	MDB	PC	1 1/2"	751	Less than or equal to 50	1	0	M	2/6/2024	2/6/2024	1	1	0.1154	0.12
2402214	92084	MDB	PC	2"	206	Less than or equal to 50	2	0	S	11/12/2024	11/20/2024	319	34	0.1154	36.80
2402477	92028	MDB	P	2"	621	Less than or equal to 50	2	0	S	11/26/2024	11/18/2024	322	3	0.1154	37.27
2402467	92103	DB	PC	3/4"	711	Less than or equal to 50	1	0	S	5/19/2024	1/18/2024	139	1	0.1154	16.04
2402071	92122	DB	PC	3/4"	647	Less than or equal to 50	1	0	S	10/27/2024	10/12/2024	291	1	0.1154	36.18
2402009	92102	DB	P	1/2" CTS	629	Less than or equal to 50	2	0	S	5/12/2024	5/12/2024	163	32	0.1154	16.81
2407180	92020	MDB	PC	3/4"	503	Less than or equal to 50	2	0	S	12/10/2024	12/10/2024	347	1	0.1154	40.04
2410112	92104	DB	PC	3/4"	1128	Less than or equal to 50	1	0	S	6/29/2024	6/29/2024	180	1	0.1154	21.77
2403712	92050	MDB	PC	3/4"	775	Less than or equal to 50	2	0	S	9/24/2024	11/10/2024	124	45	0.1154	17.38
2413145	92110	MDB	PC	3/4"	1156	Less than or equal to 50	2	0	S	6/20/2024	8/20/2024	210	56	0.1154	26.88
2407121	92050	MDB	PC	3/4"	889	Less than or equal to 50	2	0	S	4/27/2024	4/27/2024	126	1	0.1154	17.38
2416126	92119	MDB	PC	2"	467	Less than or equal to 50	2	0	M	11/16/2024	11/16/2024	1	1	0.1154	0.12
2411391	92025	DB	PC	1"	611	Less than or equal to 50	2	0	S	1/12/2024	1/12/2024	149	1	0.1154	21.10
2408997	92032	DB	P	1/2"	765	Less than or equal to 50	2	0	S	7/12/2024	1/12/2024	12	1	0.1154	1.38
2408991	92032	DB	P	1/2"	469	Less than or equal to 50	2	0	S	7/12/2024	7/12/2024	121	5	0.1154	1.20
2412961	92106	DB	PC	3/4"	830	Less than or equal to 50	2	0	S	6/20/2024	7/22/2024	204	33	0.1154	21.54
2403083	92104	DB	PC	3/4"	863	Less than or equal to 50	1	0	S	12/16/2024	12/16/2024	301	1	0.1154	46.10
2403461	92102	MDB	PC	3/4"	830	Less than or equal to 50	2	0	S	4/20/2024	7/12/2024	184	1	0.1154	16.18
2407700	92102	DB	P	1"	599	Less than or equal to 50	2	0	S	4/20/2024	5/13/2024	186	0	0.1154	16.49
2413101	92050	MDB	PC	3/4"	775	Less than or equal to 50	2	0	S	8/12/2024	9/13/2024	214	1	0.1154	21.24
2403881	92173	DB	P	1/2" CTS	515	Less than or equal to 50	2	0	S	2/7/2024	4/20/2024	88	14	0.1154	9.82
2405101	92037	DB	PC	3/4"	779	Less than or equal to 50	2	0	S	10/21/2024	10/14/2024	218	1	0.1154	21.23
2404075	92104	DB	PC	3/4"	755	Less than or equal to 50	2	0	S	2/17/2024	2/17/2024	58	1	0.1154	6.49
2414071	92056	MDB	P	1 1/4"	621	Less than or equal to 50	2	0	S	7/20/2024	7/20/2024	197	1	0.1154	21.77
2404129	92104	DB	PC	1"	205	Less than or equal to 50	2	0	S	7/12/2024	7/12/2024	207	11	0.1154	21.88
2404461	92004	DB	P	1/2" CTS	212	Less than or equal to 50	2	0	S	2/20/2024	2/20/2024	86	2	0.1154	1.20
2402066	92103	DB	P	2"	172	Less than or equal to 50	2	0	S	6/9/2024	6/9/2024	158	1	0.1154	16.23
2401296	92107	DB	PC	3/4"	801	Less than or equal to 50	2	0	S	4/26/2024	4/26/2024	242	77	0.1154	47.10
2403154	92042	DB	P	2"	410	Less than or equal to 50	1	0	M	2/9/2024	2/9/2024	1	1	0.1154	0.12
2402130	92020	MDB	PC	1 1/2"	751	Less than or equal to 50	2	0	S	10/27/2024	10/27/2024	209	1	0.1154	34.10
2402621	92122	DB	PC	3/4"	695	Less than or equal to 50	2	0	S	10/27/2024	11/11/2024	118	1	0.0920	1.06
2403487	92021	MDB	P	2"	107	Less than or equal to 50	2	0	S	10/7/2024	10/14/2024	218	1	0.1154	16.23
2413661	92077	MDB	PC	3/4"	611	Less than or equal to 50	2	0	S	7/18/2024	7/18/2024	117	1	0.1154	16.18
2412778	92106	MDB	PC	2"	371	Less than or equal to 50	2	0	S	4/26/2024	7/15/2024	197	28	0.1154	22.73
2412821	92011	MDB	PC	2"	608	Less than or equal to 50	2	0	M	4/20/2024	8/7/2024	191	3	0.1154	1.77
2410472	92090	MDB	PC	2"	747	Less than or equal to 50	2	0	S	10/7/2024	10/9/2024	277	3	0.1154	16.16
2403176	92111	MDB	PC	1 1/2"	741	Less than or equal to 50	2	0	S	4/26/2024	4/17/2024	108	1	0.1154	11.46
2413209	92179	MDB	PC	2"	479	Less than or equal to 50	2	0	M	11/11/2024	11/14/2024	2	2	0.1154	0.28
2411447	92110	DB	PC	3/4"	875	Less than or equal to 50	2	0	S	5/9/2024	5/9/2024	190	1	0.1154	27.11
2412737	92123	MDB	PC	2"	287	Less than or equal to 50	2	0	M	11/16/2024	11/14/2024	7	7	0.1154	0.81
2403891	92116	MDB	PC	2"	1189	Less than or equal to 50	2	0	S	1/29/2024	1/27/2024	8	8	0.1154	9.00
2403901	92114	MDB	PC	1"	281	Less than or equal to 50	2	0	S	4/20/2024	4/19/2024	114	1	0.1154	16.18
2404849	92025	DB	P	1"	587	Less than or equal to 50	2	0	S	5/1/2024	5/1/2024	128	5	0.1154	14.77
2407861	92101	MDB	PC	3/4"	1188	Less than or equal to 50	1	0	S	4/21/2024	4/12/2024	102	81	0.1154	11.77
2413094	92114	MDB	PC	3/4"	751	Less than or equal to 50	2	0	S	6/27/2024	9/14/2024	208	94	0.1	

SDG&E, June 13th, 2025

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
In Response to Data Request, R15-01-008, 2025 June Report
Appendix 4; Rev. 03/27/2025

Notes:

Please show the calculation for determining the total emissions. If additional worksheets are necessary, please include those to show intermediate calculations, such as the formula for the Risk Based Survey Method.

Definitions in Data Request R15-01-008, 2025 June Report

If highlighted cells are filled in, the other cells will auto-populate

The number of miles surveyed (Column C) should be the number of unique miles surveyed, and should not include any repeated miles surveyed multiple times per year.

To clarify the definition of O&M Leaks (Column O), the following criteria for O&M Leaks should be met: (1) occur stochastically across the whole territory, (2) are reported by customers, (3) found quickly after occurring, (4) found independently of survey activities but would have been found later by surveyors, and (5) considered a small number of leaks.

To clarify the definition of Survey Leaks (Column C), the following criteria for Survey Leaks should be met: (1) found from company employees or contractors actively searching for leaks (2) including, but not limited to, compliance survey leaks and non-compliance survey leaks (e.g. Super Emitter Programs, Aerial Methane Mapping, Corrosion Surveying.)

Summary of Data by Pipeline Facility/Material and Results for Annual System Leak Rate and Resulting Number of Unknown Leaks for Each Pipeline Facility/Material

Facility/Material	Total System Miles per material type	Miles on Annual Survey [$M_{A,i}$]	Miles on Multi-Year Survey Cycles [$M_{M,i}^{(n)}$]	Survey Interval (yrs) [Y]	Miles Surveyed Annually from Multi-Year Survey Cycles [$M_{C,i}$]	Total # of Leaks Detected from Survey [$N_{L,i}$]	If using a 3-year trailing leak rate average then include - 2022 Annual Leak Rate [$R_{A,i}$]	If using a 3-year trailing leak rate average then include - 2023 Annual Leak Rate [$R_{A,i}$]	2024 Annual Leak Rate [$R_{A,i}$] $R_{A,i} = \frac{N_{L,i}}{M_{A,i} + (I \times M_{C,i})}$	If applicable, then calculate the 3-year Average Leak Rate [Leak / Mile / Yr] $\bar{R}_i = \frac{1}{3} \sum_{j=1}^3 R_{A,i}$	# of Unknown Leaks $N_{K,i} = \bar{R}_i \times (M_{A,i}^{(n)} - M_{C,i}) \times \frac{1}{I}$	Total # of Leaks Detected from O&M* [$N_{O,i}$]
Main/Vintage* Plastic	1,453	1,453	NA	1	0	67	0.0287	0.0312	0.04610	0.03534	-	18
Main/Plastic	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA
Main/Plastic	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
Main/Plastic	3,341	1,060	2,281	3	760	7	0.0019	0.0015	0.00210	0.00183	4.17	1
Main/Unprotected Steel	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA
Main/Unprotected Steel	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
Main/Unprotected Steel	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA
Main/Vintage* Protected Steel	438	438	NA	1	0	49	0.0870	0.0973	0.11187	0.09870	-	17
Main/Protected Steel	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA
Main/Protected Steel	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
Main/Protected Steel	3,117	1,098	2,019	3	673	132	0.0265	0.0241	0.04235	0.03098	62.55	30
Main/Unknown	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Vintage* Plastic	1,212	1,212	NA	1	0	37	0.0313	0.0350	0.03953	0.03225	-	12
Service/Plastic	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA
Service/Plastic	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
Service/Plastic	3,130	894	2,236	3	745	19	0.0026	0.0029	0.00607	0.00388	8.68	7
Service/Unprotected Steel	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA
Service/Unprotected Steel	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
Service/Unprotected Steel	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA
Service/Vintage* Protected Steel	270	270	NA	1	0	52	0.1517	0.1769	0.19259	0.17374	-	6
Service/Protected Steel	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA
Service/Protected Steel	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
Service/Protected Steel	2,522	1,084	1,438	3	479	226	0.0789	0.0585	0.08963	0.07567	108.80	61
Service/Copper	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA
Service/Copper	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
Service/Unknown	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA
Service/Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total	15,482	7,509	7,974	N/A	2,658	589				N/A	184	152

*Definitions for "vintage" materials:

Vintage Plastic

Pipe installed before 1986 *unknown* manufacture PE pipe

Vintage Protected Steel

Pipe installed before 1950

Estimated Emissions by Pipeline Facility/Material for Each Leakage Category

Leakage Category	Emission Factor (Mscf/day/leak)	2024 Emissions from Leaks Detected Prior to 2024 (Mscf)	2024 Emissions from Leaks Detected from 2024 Survey (Mscf)	2024 Emissions from O&M* Leaks Detected in 2024 (Mscf)	2024 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2024 Emissions from Distribution Pipelines (Mscf)
Facility/Material						
Main/Vintage* Plastic	0.1154	5	1,778	6	0	1,789
Main/Plastic	0.1154	NA	NA	NA	NA	NA
Main/Plastic	0.1154	NA	NA	NA	NA	NA
Main/Plastic	0.1154	0	194	0	176	370
Main/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Main/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Main/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Main/Vintage* Protected Steel	0.1154	0	975	36	0	1,010
Main/Protected Steel	0.1154	0	2,636	44	2,641	5,322
Main/Protected Steel	0.1154	NA	NA	NA	NA	NA
Main/Protected Steel	0.1154	NA	NA	NA	NA	NA
Main/Unknown	0.1154	NA	NA	NA	NA	NA
Service/Vintage* Plastic	0.1154	0	640	6	0	646
Service/Plastic	0.1154	NA	NA	NA	NA	NA
Service/Plastic	0.1154	NA	NA	NA	NA	NA
Service/Plastic	0.1154	0	503	2	366	871
Service/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Service/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Service/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Service/Vintage* Protected Steel	0.1154	0	1,128	6	0	1,134
Service/Protected Steel	0.1154	NA	NA	NA	NA	NA
Service/Protected Steel	0.1154	NA	NA	NA	NA	NA
Service/Protected Steel	0.1154	3	4,302	54	4,594	8,954
Service/Copper	0.1154	NA	NA	NA	NA	NA
Service/Copper	0.1154	NA	NA	NA	NA	NA
Service/Copper	0.1154	NA	NA	NA	NA	NA
Service/Unknown	0.1154	NA	NA	NA	NA	NA
Total	N/A	9	12,156	154	7,778	20,988

O&M leaks include any other pipeline leaks that are discovered during the year from operations and maintenance activity, third party and gas odor reports, etc. that are not accounted for in other categories of this worksheet.

The cells below should be used for calculating emissions when a risk based leak detection and repair practice is used by the Utility. This table is intended to help categorize emissions associated with large leaks (Super Emitters (SEs)), and non-large leaks (non-SEs).

	2024 Emissions from Leaks Detected Prior to 2024 (Mscf)	2024 Emissions from Leaks Detected from 2024 Survey (Mscf)	2024 Emissions from O&M* Leaks Detected in 2024 (Mscf)	2024 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2024 Emissions from Distribution Pipelines

Large Leak Emitter Program					
Compliance Leak Survey - Non-LL					-
Compliance Leak Survey - LL					-
Large Leak Emitter Program Outside Compliance Area - Non-LL					-
Large Leak Emitter Program Outside Compliance Area - LL					-
O&M - Non-LL					-
O&M - LL					-
TOTAL	-	-	-	-	-

Please Provide the following:	Total Count
The portion of the survey mileage that includes mileage that is surveyed multiple times per year. Repeated mileage will not be accounted for in the unknown leak calculation.	0

SDG&E, June 13th, 2025

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

Distribution Main & Service Pipeline Damage (3rd party dig-ins, natural disasters, etc.)

[illegible]

SDG&E, June 13th, 2025

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.

In Response to Data Request, R15-01-008 2025 June Report

Appendix 4; Rev. 03/27/2025

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

Distribution Main & Service Pipeline Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Pipe Size (nominal) (inches)	Length of Pipe (feet)	Pressure (psi)	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	SDG&E Territory	264	N/A	N/A	N/A	0.71	Distribution Odor Intensity Tests
N/A	SDG&E Territory	1	3"	25	320	0.03	ABANDONED HP MAIN PIPE
N/A	SDG&E Territory	1	6"	8	320	0.04	ABANDONED HP MAIN PIPE
N/A	SDG&E Territory	1	3/4"	23	55	0.00	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	1"	1,415	55	0.04	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	1 1/4"	15	55	0.00	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	1 1/2"	5,289	55	0.35	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	2"	2,367	55	0.26	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	3"	947	55	0.24	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	4"	362	55	0.16	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	6"	60	55	0.06	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	1"	58	55	0.00	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	1 1/4"	36,874	55	1.65	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	2"	155,133	55	14.91	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	3"	39,314	55	8.38	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	4"	77	55	0.03	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	6"	4	55	0.00	ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1	3/4"	24,364	55	0.36	ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	1	1"	1,188	55	0.03	ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	1	1 1/4"	628	55	0.03	ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	1	1 1/2"	1,068	55	0.07	ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	1	2"	145	55	0.02	ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	1	1/2"	174,377	55	0.86	ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	1	1"	25,028	55	0.73	ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	1	1 1/4"	15,492	55	0.69	ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	1	2"	1,287	55	0.12	ABANDONED MP SERVICE PIPE
BD-24-41	SDG&E Territory	9	18"	26	320	2.20	Distribution blowdown
BD-24-42	SDG&E Territory	16	24"	28	320	2.14	Distribution blowdown
BD-24-20	SDG&E Territory	1	20	525	320	0.04	Distribution Blowdown
BD-24-18	SDG&E Territory	1	15	14,256	320	3.68	Distribution Blowdown
BD-24-24	SDG&E Territory	1	20	264	320	0.01	Distribution Blowdown
BD-24-36	SDG&E Territory	1	20	10,032	320	8.07	Distribution Blowdown
BD-24-37	SDG&E Territory	1	20	4,224	320	6.84	Distribution Blowdown
BD-24-34	SDG&E Territory	1	15	6,336	320	1.64	Distribution Blowdown
BD-24-30	SDG&E Territory	1	15	6,336	320	3.82	Distribution Blowdown
BD-24-28	SDG&E Territory	1	20	3,854	320	3.45	Distribution Blowdown
BD-24-27	SDG&E Territory	1	10	4,594	320	0.09	Distribution Blowdown
BD-24-26	SDG&E Territory	1	20	9,979	320	7.03	Distribution Blowdown
BD-24-15	SDG&E Territory	1	15	14,256	320	2.33	Distribution Blowdown

Sum Total	71
------------------	-----------

SDG&E, June 13th, 2025

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
In Response to Data Request, R15-01-008 2025 June Report
Appendix 4; Rev. 03/27/2025

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

The emissions captured on this tab represent the emissions associated with the operational design and function of the component. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Distribution Main & Service Pipeline Component Vented Emissions (see note above):

Total Number of Devices	Device Type	Bleed Rate	Manufacturer	Engineering or Manufacturer's based Estimate of Emissions	Annual Emissions (Mscf)	Explanatory Notes / Comments
Sum Total					0	

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

The emissions captured on this tab represent the emissions associated unintentional leaks that if repaired would not leaking. If the component is releasing gas or "bleeding" as a result of its design or function then it is not to be captured

Total Number of Devices	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/day)	Annual Emission (Mscf)	Explanatory Notes / Comments
							Sum Total	0	

Pipeline Leak Section

Removed

Added

2414626

Appendix 4; Rev. 03/27/2025

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Pipeline Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Pipe Classification	MA = distribution main, above ground MB = distribution main, below ground DA = distribution service, above ground DB = distribution service, below ground
Pipe Material	C = copper CI = cast iron P = plastics (Acetyl, ABS, PE, PVC, etc.) PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unprotected steel, coated
Pipe Size (nominal)	
Pipe Age (months)	
Pressure (psi)	MOP = maximum operating pressure over the past year
Leak Grade	If the utility uses grades for above ground leaks, it is unnecessary to use the AH,AN, or AM designations. 1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 AH = Above Ground Hazardous synonymous with Grade 1. AN = Above Ground Non-Hazardous, synonymous with Grade 2 and 2+. AM = Above Ground Non-Hazardous Minor (akin to grade 3 below ground leak). N = non-graded or ungraded
Upgraded Leak Grade or Downgraded Leak Grade	U: Upgraded Leak such as a grade 2 or 3 leak that was surveyed again and changed designation to grade 1 or 2. D: downgraded leak, such as a grade 1 or 2 leak that was surveyed again and changed designation to grade 2 or 3.
Above Ground or Below Ground	A = Above Ground B = below ground

Leak Discovery Method	<p>S = Routine Leak Survey (This discovery method should be parsed and the emissions summarized into leaks carried over from before 2016, and those detected in 2016. The totals for these subcategories should be carried over to column C43 through D63 on the Unsurveyed Pipeline Leaks tab.)</p> <p>M = O&M (E.G. O&M Activities, Third party reports, customer odor reports etc.)</p> <p>O = Other (This will be grouped with M in the summary categorization of leaks.)</p>
Discovery Date (MM/DD/YY)	
Re-Grade Date (MM/DD/YY)	
Repair Date (MM/DD/YY)	Date that the pipeline repair stopped the leak. Any associated blowdowns resulting from the repair should be included in the blowdowns tab.
Scheduled Repair Date (MM/DD/YY)	<p>If leak is open, specify the scheduled date of repair;</p> <p>Otherwise type "M," signifying that the leak is being monitored with no scheduled date of repair;</p> <p>Then, provide the reason for not scheduling a repair in Column P.</p>
Reason for Not Scheduling a Repair	If Repair Date is blank, and Scheduled Repair Date (Column O) = "M", then provide the reason for not scheduling a repair.
Number of Days Leaking	<p>If the leak was discovered by survey in the year of interest, then assume leaking from January 1st of subject year <u>thru</u> repair date or December 31st of subject year, which ever is earlier. (E.G. Days Leaking = Repair - Jan 1st + 1 day.)</p> <p>(For days leaking for leaks carried over use January 1st as start date for emissions calculations.)</p> <p>For O&M discovered leaks, assume that the leak begins with the discovery date <u>thru</u> repair date or December 31st of subject year, whichever is earlier.</p>
Number of Days to Repair	<p>Use only Repair-Discovery +1. Do not use January 1st for time to repair.</p> <p>For regraded leaks, use Repair Date - Regrade Date +1.</p>
Emission Factor (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Unknown Leaks	
Facility/Material	
Total System Miles per material type	
Miles on Annual Survey [$M_{X,A}$]	

Miles on Multi-Year Survey Cycles $[M_X^{Tot}]$	
Survey Interval (yrs) $[I]$	
Miles Surveyed Annually from Multi-Year Survey Cycles $[M_{X,I}]$	
Total # of Leaks Detected from Survey $[N_{X,L}]$	
If using a 3-year trailing leak rate average then include - 2019 Annual Leak Rate $[R_{X,1}]$	
If using a 3-year trailing leak rate average then include - 2020 Annual Leak Rate $[R_{X,2}]$	
2022 Annual Leak Rate $[R_{X,3}]$	$R_{X,3} = \frac{N_{X,L}}{M_{X,A} + (I \times M_{X,I})}$
If applicable, then calculate the 3-year Average Leak Rate [Leaks / Mile / Yr]	$\overline{R_X} = \frac{1}{3} \sum_{i=1}^3 R_{X,i}$
# of Unknown Leaks	$N_{X,unk} = \overline{R_X} \times (M_X^{Tot} - M_{X,I}) \times \frac{I}{2}$
Total # of Leaks Detected from O&M* $[N_{X,O}]$	
Pipeline Leaks Summary	
Count of Leaks Carried over from Prior Year	Based on a leak start date prior to the first day of the year of interest.
Count of Leaks Discovered in the Year of Interest	The total number of leaks by grade or category discovered in the year of interest. If a leak is downgraded to not leaking, do not count it.
Count of Leaks Repaired in the Year of Interest	

Average Days to Repair Leaks	The average days to repair leaks should be baase on the formula: (Repair Date/Time minus Discovery Date/Time) plus (one day, unless using a discrete time stamp for leak repairs), then take the sum and divide by number of leaks repaired by grade to get the average days to repair.
Count of Estimated Unsurveyed Leaks in the Year of Interest	For leaks identified in Unsurveyed areas extrapolate the proportion of leak counts by grade that were found in the respective areas based on the year or periods used to estimate the unsurveyed leak count. If the unsurveyed leak count was based on the current year leak count by grade detected then use the current proportion of graded leak count applied to the unsurveyed leaks.
Count of Remaining Leaks at final day of the Year of Interest (12/31/xx)	This count is only of the actual leaks detected in the operator's system that have not been repaired as of 12/31 of the year of interest.
Emissions from Leaks Carried over from Prior Year.	Based on a leak start date prior to the first day of the year of interest. This includes leaks discovered through O&M and survey activities.
Emissions from Leaks Discovered in the Year of Interest.	The total number of leaks by grade or category discovered in the year of interest. This includes leaks discovered through O&M and survey activities.
Emissions from Estimated Unsurveyed Leaks in the Year of Interest	The emissions by grade would be on the same basis that used to extrapolate the count of leaks in the unsurveyed areas. For example: For leaks identified in Unsurveyed areas extrapolate the proportion of leak emissions by grade that were found in the respective areas based on the year or periods used to estimate the unsurveyed leak count. If the unsurveyed leak count was based on the current year leaks detected then use the current proportion of graded leaks applied to the unsurveyed leak emissions.
Total Emissions in the Year of Interest [Mscf of Natural Gas]	
All Damages	
ID	
Geographic Location	GIS, zip code, or equivalent
Damage Type	E = excavation damage N = natural force damage O = other outside force damage
Pipe Classification	MA = distriibution main, above ground MB = distriibution main, below ground DA = distribution service, above ground DB = distribution service, below ground

Pipe Material	C = copper CI = cast iron P = plastics (Acetal, ABS, PE, PVC, etc.) PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unptotected steel, coated
Pipe Size (nominal)	
Pipe Age (months)	
Pressure (psi)	MOP = maximum operating pressure over the past year
Leak Grade	1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 N = Non-Graded
Above Ground or Below Ground	AH = above ground, hazardous AN = above ground, non-hazardous B = below ground
Discovery Date (MM/DD/YY)	
Repair Date (MM/DD/YY)	
Number of Days Leaking	<p>If date and time stamp are reliable and used consistently by respondent, then emissions may be calculated based on actual time leaking. E.G. Repair time - damage event time = duration of event.</p> <p>If respondent has average or historical leak duration based on the nature and circumstances of damages, then these may be applied to like damage events. The emissions factors should be adequately supported and explained in the filing.</p> <p>If actual time stamps and historical averages are not available, then whole days should be used in the engineering calculation. The leak begins with the damage event date thru repair date or December 31st of subject year, whichever is later. E.G. Days Leaking = Repair date - date of damage + 1 day.</p>
Emission Factor or Engineering Estimate (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent

Number of Blowdown Events	If counting a series of small blowdowns associated with services such as MSA replacement, or Service pipe of small diameter or section length then enter total and the formula in the explanation column.
Pipe Size (nominal)	
Length of Pipe	
Pressure (psi)	MOP = maximum operating pressure over the past year
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Component Vented Emissions	
Total Number of Devices	
Device Type	P = pneumatic device H = hydraulic valve operator T = turbine valve operator PR = pressure relief valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Engineering or Manufacturer's based Estimate of Emissions	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
Component Fugitive Leaks	
Total Number of Devices	
Device Type	P = pneumatic device H = hydraulic valve operator T = turbine valve operator PR = pressure relief valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Discovery Date (MM/DD/YY)	List the actual discovery date. If the leak was discovered in the year of interest, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes.

Repair Date (MM/DD/YY)	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.
Number of Days Leaking	Assume Leaking from January 1 of subject year or prior survey date, whichever is later, thru the repair date (if repaired in year of interest) or December 31 of subject year, whichever is earlier. For O&M discovered leaks, assume that the leak begins with the discovery date <u>thru</u> repair date or December 31st of subject year, whichever is earlier.
Emission Factor (Mscf/day)	
Annual Emission (Mscf)	
Explanatory Notes / Comments	