SDG&E, June 14, 2019

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 2019 June Report

Appendix 4; Rev. 03/29/19

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.
If all the mains and services are not surveyed annually, use the tab "Unsurveyed Pipeline Leaks" to estimate emissions.
Do not record above ground MSA leaks on this tab. Use Appendix 6 instead. Do continue to list above ground leaks associated with the Distribution Main & Services pipeline system.
After completing the tab on "Pipeline Leaks" and "Unsurveyed Pipeline Leaks," fill in the table for "Pipeline Leak Summary."

Sum Total Emissions from leaks carried over from before 2018	-
Sum Total Emissions from Survey leaks discovered in 2018	2,535
Sum Total Emissions from O&M Leaks discovered in 2018	49
Grand Total of all 2018 emissions from leaks	2,584

Distribution Main & Service Pipeline Leaks:

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Upgraded Leak Grade or Downgraded Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Re-Grade Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Number of Days to Repair	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1800110	92027	DB	P	2"	434	Less than or equal to 60	Code 1		B	M	1/2/2018		1/2/2018			1	1	0.0089	0.0089	
1800141	91932	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	1/2/2018		1/2/2018			1	1	0.0276	0.0276	
1800135		MB	P	1 1/4"	506	Less than or equal to 60	Code 1		B	M	1/2/2018		1/2/2018			1	1	0.2988	0.2988	
1800029	92630	DB	PC	3/4"	854	Less than or equal to 60	Code 1		B	M	1/2/2018		1/2/2018			1	1	0.0276	0.0276	
1800448	92054	DB	PC	3/4"	794	Less than or equal to 60	Code 1		B	M	1/4/2018		1/4/2018			1	1	0.0276	0.0276	
1800465	92008	DB	PC	3/4"	806	Less than or equal to 60	Code 1		B	M	1/5/2018		1/5/2018			1	1	0.0276	0.0276	
1800694	91945	MB	PC	1 1/2"	866	Less than or equal to 60	Code 1		B	S	1/8/2018		1/9/2018			9	2	0.0612	0.5508	
1800698	92113	MB	PC	2"	470	Less than or equal to 60	Code 1		B	M	1/8/2018		1/8/2018			1	1	0.0612	0.0612	
1800605		DB	PC	3/4"	686	Less than or equal to 60	Code 1		B	S	1/8/2018		1/8/2018			8	1	0.0276	0.2208	
1800885	92114	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1		B	M	1/10/2018		1/10/2018			1	1	0.0089	0.0089	
1800845	92656	DB	PC	3/4"	746	Less than or equal to 60	Code 1		B	M	1/10/2018		1/10/2018			1	1	0.0276	0.0276	
1801010	92104	DB	PC	3/4"	1153	Less than or equal to 60	Code 1		B	M	1/11/2018		1/11/2018			1	1	0.0276	0.0276	
1801025	92025	DB	P	1/2" IPS	470	Less than or equal to 60	Code 1		B	M	1/11/2018		1/11/2018			1	1	0.0089	0.0089	
1801029	92104	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	1/11/2018		1/11/2018			1	1	0.0276	0.0276	
1801089	93534	DB	PC	3/4"	614	Less than or equal to 60	Code 1		B	M	1/11/2018		1/11/2018			1	1	0.0276	0.0276	
1801030	92019	MB	P	3"	302	Less than or equal to 60	Code 1		B	M	1/12/2018		1/12/2018			1	1	0.2988	0.2988	
1801124	92019	DB	P	1/2" CTS	410	Less than or equal to 60	Code 1		B	M	1/12/2018		1/12/2018			1	1	0.0089	0.0089	
1801142	92103	MB	P	2"	542	Less than or equal to 60	Code 1		B	M	1/12/2018		1/12/2018			1	1	0.2988	0.2988	
1801136	92019	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1		B	M	1/13/2018		1/13/2018			1	1	0.0089	0.0089	
1801139	91945	DB	PC	3/4"	866	Less than or equal to 60	Code 1		B	M	1/13/2018		1/13/2018			1	1	0.0276	0.0276	
1801179	92019	MB	PC	1 1/2"	794	Less than or equal to 60	Code 1		B	M	1/14/2018		1/14/2018			1	1	0.0612	0.0612	
1801626	92019	MB	PC	1 1/2"	578	Less than or equal to 60	Code 2		B	M	1/19/2018		1/20/2018			2	2	0.0612	0.1224	
1801174	92122	DB	PC	3/4"	626	Less than or equal to 60	Code 1		B	M	1/15/2018		1/15/2018			1	1	0.0276	0.0276	
1801353	92019	DB	P	1/2" IPS	427	Less than or equal to 60	Code 1		B	M	1/16/2018		1/16/2018			1	1	0.0089	0.0089	
1801669	92373	MB	PC	3/4"	734	Less than or equal to 60	Code 2		B	M	1/20/2018		1/21/2018			2	2	0.0612	0.1224	
1801358	92069	MB	P	3"	482	Less than or equal to 60	Code 1		B	M	1/16/2018		1/16/2018			1	1	0.2988	0.2988	
1801469	92019	DB	P	1 1/4"		Less than or equal to 60	Code 1		B	M	1/16/2018		1/16/2018			1	1	0.0089	0.0089	
1801355	92111	DB	PC	1"	938	Less than or equal to 60	Code 1		B	M	1/16/2018		1/16/2018			1	1	0.0276	0.0276	
1801390	92019	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	1/17/2018		1/17/2018			1	1	0.0276	0.0276	
1801485	92019	MB	P	2"	527	Less than or equal to 60	Code 1		B	M	1/18/2018		1/18/2018			1	1	0.2988	0.2988	
1801657	92373	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	1/19/2018		1/19/2018			1	1	0.0276	0.0276	
1801661	92105	MB	PC	4"	854	Less than or equal to 60	Code 1		B	M	1/19/2018		1/19/2018			1	1	0.0612	0.0612	
1801681	92373	MB	P	2"		Less than or equal to 60	Code 1		B	M	1/21/2018		1/21/2018			1	1	0.2988	0.2988	
1802138	92106	MB	PC	1"	946	Less than or equal to 60	Code 2		B	M	1/25/2018		1/26/2018			2	2	0.0612	0.1224	
1801791	92116	DB	PC	3/4"	674	Less than or equal to 60	Code 1		B	M	1/22/2018		1/22/2018			1	1	0.0276	0.0276	
1802178	91911	DB	PC	3/4"	866	Less than or equal to 60	Code 3		B	M	1/26/2018		1/27/2018			2	2	0.0276	0.0552	
1801824	91945	DB	PC	3/4"	866	Less than or equal to 60	Code 1		B	M	1/23/2018		1/23/2018			1	1	0.0276	0.0276	
1801923	92373	DB	PC	3/4"	1072	Less than or equal to 60	Code 1		B	M	1/23/2018		1/23/2018			1	1	0.0276	0.0276	
1802051	92373	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	M	1/23/2018		1/23/2018			1	1	0.0276	0.0276	
1801958	92373	MB	PC	2"	686	Less than or equal to 60	Code 1		B	M	1/24/2018		1/24/2018			1	1	0.0612	0.0612	
1801992	92373	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	1/24/2018		1/24/2018			1	1	0.0276	0.0276	
1802125	91902	MB	PC	2"	578	Less than or equal to 60	Code 1		B	M	1/24/2018		1/24/2018			1	1	0.0612	0.0612	
1802080	92373	DB	PC	3/4"	794	Less than or equal to 60	Code 1		B	M	1/25/2018		1/25/2018			1	1	0.0276	0.0276	
1802415	92373	DB	PC	3/4"	878	Less than or equal to 60	Code 2		B	M	1/29/2018		1/30/2018			2	2	0.0276	0.0552	
1802135	91911	MB	PC	2"	638	Less than or equal to 60	Code 1		B	M	1/25/2018		1/25/2018			1	1	0.0612	0.0612	
1802474	92373	MB	PC	1 1/2"	830	Less than or equal to 60	Code 2		B	M	1/30/2018		1/31/2018			2	2	0.0612	0.1224	
1802139	92373	MB	PC	1"	946	Less than or equal to 60	Code 1		B	M	1/25/2018		1/25/2018			1	1	0.0612	0.0612	
1802212	92014	MB	P	2"	482	Less than or equal to 60	Code 1		B	M	1/25/2018		1/25/2018			1	1	0.2988	0.2988	
1802206	92373	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1		B	M	1/26/2018		1/26/2018			1	1	0.0089	0.0089	
1802261	91977	MB	PC	1 1/2"	722	Less than or equal to 60	Code 1		B	M	1/26/2018		1/26/2018			1	1	0.0612	0.0612	
1802291	92373	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	1/27/2018		1/27/2018			1	1	0.0276	0.0276	
1802297	92102	MB	unknown	1"	1079	Less than or equal to 60	Code 1		B	M	1/27/2018		1/27/2018			1	1	0.060	0.06	
1802361	92373	DB	PC	3/4"	878	Less than or equal to 60	Code 1		B	M	1/29/2018		1/29/2018			1	1	0.0276	0.0276	
1802397	92373	DB	P	1/2" CTS		Less than or equal to 60	Code 1		B	M	1/29/2018		1/29/2018			1	1	0.0089	0.0089	
1802423	92154	DB	PC	3/4"	602	Less than or equal to 60	Code 1		B	M	1/29/2018		1/29/2018			1	1	0.0276	0.0276	
1802524	92118	DB	PC	1"	722	Less than or equal to 60	Code 1		B	M	1/30/2018		1/30/2018			1	1	0.0276	0.0276	
1802551	92113	DB	PC	3/4"	470	Less than or equal to 60	Code 1		B	M	1/30/2018		1/30/2018			1	1	0.0276	0.0276	
1802468	92106	DB	PC	3/4"	602	Less than or equal to 60	Code 1		B	M	1/30/2018		1/30/2018			1	1	0.0276	0.0276	
1802567	92110	DB	PC	3/4"	794	Less than or equal to 60	Code 1		B	M	1/30/2018		1/30/2018			1	1	0.0276	0.0276	
1802713	92021	MB	P	2"	410	Less than or equal to 60	Code 1		B	M	1/31/2018		1/31/2018			1	1	0.2988	0.2988	
1802728	92104	DB	PC	3/4"	734	Less than or equal to 60	Code 1		B	M	2/1/2018		2/1/2018			1	1	0.0276	0.0276	
1802835	92113	DB	PC	3/4"	626	Less than or equal to 60	Code 1		B	M	2/1/2018		2/1/2018			1	1	0.0276	0.0276	
1802953	92101	DB	PC	1 1/2"	638	Less than or equal to 60	Code 1		B	M	2/2/2018		2/2/2018			1	1	0.0276	0.0276	
1804001	92114	DB	PC	3/4"	854	Less than or equal to 60	Code 2		B	M	2/15/2018		2/16/2018			2	2	0.0276	0.0552	
1802969	92057	MB	PC	1 1/2"	602	Less than or equal to 60	Code 1		B	M	2/4/2018		2/4/2018			1	1	0.0612	0.0612	
1803110	92081	DB	PC	3/4"	638	Less than or equal to 60	Code 1		B	M	2/5/2018		2/5/2018			1	1	0.0276	0.0276	
1803217	92154	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	2/6/2018		2/6/2018			1	1	0.0276	0.0276	
1803988	91945	DB	PC	3/4"	866	Less than or equal to 60	Code 1		B	M	2/6/2018		2/6/2018			1	1	0.0276	0.0276	
1803310	92102	MB	PC	1"	1116	Less than or equal to 60	Code 1		B	S	2/7/2018		2/7/2018			38	1	0.0612	2.3256	
1804271	92114	DB	PB	3/4"	794	Less than or equal to 60	Code 2		B	M	2/20/2018		2/21/2018			2	2	0.0276	0.0552	
1804290	92102	MB	PC	1"	1116	Less than or equal to 60	Code 1		B	M	2/7/2018		2/7/2018			1	1	0.0612	0.0612	
1803428	92115	DB	PC	3/4"	1095	Less than or equal to 60	Code 1		B	M	2/8/2018		2/8/2018			1	1	0.0276	0.0276	
1803365	91911	DB	PC	3/4"	326	Less than or equal to 60	Code 1		B	M	2/8/2018		2/8/2018			1	1	0.0276	0.0276	
1803558	92071	DB	P	1/2" CTS	566	Less than or equal to 60	Code 1		B	M	2/9/2018		2/9/2018			1	1	0.0089	0.0089	
1803577	92113	MB	PC	1 1/2"	770	Less than or equal to 60	Code 1		B	M	2/9/2018		2/9/2018			1	1	0.0612	0.0612	
1803735	92109	DB	PC	3/4"	674	Less than or equal to 60	Code 1		B	M	2/10/2018		2/10/2018			1	1	0.0276	0.0276	
1803742	91910	DB	PC	3/4"	830	Less than or equal to 60	Code 1		B	M	2/12/2018		2/12/2018			1	1	0.0276	0.0276	
1803841	92139	MB	PC	1 1/2"	770	Less than or equal to 60	Code 1		B	M	2/13/2018		2/13/2018			1	1	0.0612	0.0612	
1803873	92114	DB	PC	3/4"	794	Less than or equal to 60	Code 1		B	M	2/14/2018		2/14/2018			1	1	0.0276	0.0276	
1804882	92114	MB	PC	2"	1095	Less than or equal to 60	Code 2		B	M	2/26/2018		2/27/2018			2	2	0.0612	0.1224	
1804893	91950	MB	PC	2"	734	Less than or equal to 60	Code 2		B	M	2/26/2018		2/27/2018			2	2	0.0612	0.1224	
1803884	92102	DB	P	1 1/4"	530	Less than or equal to 60	Code 1		B	S	2/14/2018		2/14/2018			45	1	0.0089	0.4005	
1803958	92075	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1		B	M	2/14/2018		2/14/2018			1	1	0.0089	0.0089	
1804065	91910	MB	PC	1 1/2"	722	Less than or equal to 60	Code 1		B	S	2/15/2018		2/16/2018			47	2	0.0612	2.8764	
1804093	91950	MB	PC	1 1/2"	686	Less than or equal to 60	Code 1		B	M	2/16/2018		2/16/2018			1	1	0.0612	0.0612	
1805232	92075	DB	PC	3/4"	794	Less than or equal to 60	Code 2		B	M	3/1/2018		3/2/2018			2	2	0.0276	0.0552	
1805233	92701	DB	Unknown	1"	1178	Less than or equal to 60	Code 2		B	M	3/1/2018		3/2/2018			2	2	0.060	0.12	
1804187	92105	DB	PC	3/4"	770	Less than or equal to 60	Code 1		B	M	2/16/2018		2/16/2018			1	1	0.0276	0.0276	
1804192	92114	DB	PC	3/4"	518	Less than or equal to 60	Code 1		B	M	2/16/2018		2/16/2018			1	1	0.0276	0.0276	
1804202	92139	DB	PC	3/4"	758	Less than or equal to 60	Code 1		B	M	2/16/2018		2/16/2018			1	1	0.0276	0.0276	
1805398	92701	MB	P	2"	554	Less than or equal to 60	Code 2		B	M	3/5/2018		3/6/2018			2	2	0.2988	0.5976	
1804301	91910	DB	PC	3/4"	1088	Less than or equal to 60	Code 1		B	M	2/20/2018		2/20/2018			1	1	0.0276	0.0276	
1804597	92139	MB	PC	2"	866	Less than or equal to 60	Code 1		B	M	2/22/2018		2/22/2018			1	1	0.0612	0.0612	
1805558	92110	MB	PC	2"	1148	Less than or equal to 60	Code 2		B	S	3/6/2018		3/7/2018			66	2	0.0612	4.0392	
1804560		DB	PC	3/4"	614	Less than or equal to 60	Code 1		B	M	2/22/2018		2/22/2018			1	1	0.0276	0.0276	
1804639	92102	MB	PC	1 1/2"	758	Less than or equal to 60	Code 1		B	M	2/23/2018		2/23/2018			1	1	0.0612	0.0612	

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1804719	92114	MB	PC	2"	614	Less than or equal to 60	Code 1		B	M	2/23/2018		2/23/2018			1	1	0.0612	0.0612	
1804725	91977	MB	P	3"	542	Less than or equal to 60	Code 1		B	S	2/24/2018		2/25/2018			56	2	0.2988	16.7328	
1804727	92102	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	2/24/2018		2/24/2018			1	1	0.0276	0.0276	
1804731	92105	DB	PC	3/4"	806	Less than or equal to 60	Code 1		B	M	2/24/2018		2/24/2018			1	1	0.0276	0.0276	
1805918	92105	MB	PC	2"	878	Less than or equal to 60	Code 2		B	M	3/9/2018		3/10/2018			2	2	0.0612	0.1224	
1804734	92105	MB	PC	1 1/2"	782	Less than or equal to 60	Code 1		B	M	2/24/2018		2/24/2018			1	1	0.0612	0.0612	
1804885		DB	PC	3/4"	806	Less than or equal to 60	Code 1		B	M	2/26/2018		2/26/2018			1	1	0.0276	0.0276	
1806189	92107	MB	PC	6"	950	Less than or equal to 60	Code 2		B	S	3/14/2018		3/15/2018			74	2	0.0612	4.5288	
1806195	92509	DB	PB	3/4"	650	Less than or equal to 60	Code 2		B	S	3/14/2018		3/15/2018			74	2	0.0276	2.0424	
1806204	92509	DB	P	1/2" CTS	554	Less than or equal to 60	Code 2		B	S	3/14/2018		3/15/2018			74	2	0.0089	0.6586	
1805004	91945	DB	PC	3/4"	866	Less than or equal to 60	Code 1		B	M	2/27/2018		2/27/2018			1	1	0.0276	0.0276	
1806254	92509	MB	PB	3"	626	Less than or equal to 60	Code 2		B	M	3/14/2018		3/15/2018			2	2	0.0612	0.1224	
1805086	92103	DB	PC	3/4"	510	Less than or equal to 60	Code 1		B	S	2/28/2018		2/28/2018			59	1	0.0276	1.6284	
1806277	92509	DB	PB	1"	758	Less than or equal to 60	Code 2		B	M	3/15/2018		3/16/2018			2	2	0.0276	0.0552	
1806324	92509	MB	P	3"		Less than or equal to 60	Code 2		B	S	3/15/2018		3/16/2018			75	2	0.2988	22.41	
1805112	92701	DB	P	1"	24	Less than or equal to 60	Code 1		B	M	2/28/2018		2/28/2018			1	1	0.0089	0.0089	
1806410	92509	DB	PB	3/4"	698	Less than or equal to 60	Code 2		B	M	3/16/2018		3/17/2018			2	2	0.0276	0.0552	
1806422	92509	DB	PC	3/4"	878	Less than or equal to 60	Code 2		B	M	3/16/2018		3/17/2018			2	2	0.0276	0.0552	
1805120	92110	DB	PC	3/4"	986	Less than or equal to 60	Code 1		B	M	2/28/2018		2/28/2018			1	1	0.0276	0.0276	
1805227	92701	MB	P	2"	554	Less than or equal to 60	Code 1		B	S	3/1/2018		3/1/2018			60	1	0.2988	17.928	
1805236	91977	DB	PC	3/4"	746	Less than or equal to 60	Code 1		B	M	3/1/2018		3/1/2018			1	1	0.0276	0.0276	
1805260	92701	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1		B	S	3/2/2018		3/2/2018			61	1	0.0089	0.5429	
1805780	92056	MB	P	3"	271	Less than or equal to 60	Code 1		B	M	3/2/2018		3/2/2018			1	1	0.2988	0.2988	
1805264	91911	DB	PC	3/4"	614	Less than or equal to 60	Code 1		B	M	3/2/2018		3/2/2018			1	1	0.0276	0.0276	
1805308	92701	DB	PC	3/4"	698	Less than or equal to 60	Code 1		B	M	3/3/2018		3/3/2018			1	1	0.0276	0.0276	
1806693	92114	DB	PC	3/4"	962	Less than or equal to 60	Code 2		B	M	3/20/2018		3/21/2018			2	2	0.0276	0.0552	
1805404	92105	DB	PC	3/4"	746	Less than or equal to 60	Code 1		B	M	3/5/2018		3/5/2018			1	1	0.0276	0.0276	
1806746	92509	MB	P	2"	542	Less than or equal to 60	Code 2		B	S	3/21/2018		3/22/2018			81	2	0.2988	24.2028	
1806781	92509	DB	PC	3/4"	722	Less than or equal to 60	Code 2		B	M	3/21/2018		3/22/2018			2	2	0.0276	0.0552	
1805506	92701	DB	PC	3/4"	638	Less than or equal to 60	Code 1		B	M	3/6/2018		3/6/2018			1	1	0.0276	0.0276	
1806799	92105	DB	PC	3/4"	842	Less than or equal to 60	Code 2		B	M	3/21/2018		3/22/2018			2	2	0.0276	0.0552	
1805549	92105	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	M	3/6/2018		3/6/2018			1	1	0.0276	0.0276	
1806886	92509	MB	PC	2"	698	Less than or equal to 60	Code 2		B	S	3/23/2018		3/24/2018			83	2	0.0612	5.0796	
1806893	92509	DB	PC	3/4"	614	Less than or equal to 60	Code 2		B	M	3/23/2018		3/24/2018			2	2	0.0276	0.0552	
1805563	92701	DB	PC	3/4"	878	Less than or equal to 60	Code 1		B	M	3/6/2018		3/6/2018			1	1	0.0276	0.0276	
1805564	92102	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	3/6/2018		3/6/2018			1	1	0.0276	0.0276	
1805628	92701	DB	PC	3/4"	854	Less than or equal to 60	Code 1		B	M	3/7/2018		3/7/2018			1	1	0.0276	0.0276	
1805677	92701	MB	PC	2"	674	Less than or equal to 60	Code 1		B	M	3/7/2018		3/7/2018			1	1	0.0612	0.0612	
1807035	92024	DB	PC	1"	842	Less than or equal to 60	Code 2		B	M	3/26/2018		3/27/2018			2	2	0.0276	0.0552	
1805689	92109	DB	PC	3/4"	1088	Less than or equal to 60	Code 1		B	M	3/7/2018		3/7/2018			1	1	0.0276	0.0276	
1805656	92708	DB	PC	3/4"	638	Less than or equal to 60	Code 1		B	M	3/7/2018		3/7/2018			1	1	0.0276	0.0276	
1806166	92111	DB	PC	3/4"	938	Less than or equal to 60	Code 1		B	M	3/12/2018		3/12/2018			1	1	0.0276	0.0276	
1806110	92114	DB	PC	3/4"	1090	Less than or equal to 60	Code 1		B	M	3/13/2018		3/13/2018			1	1	0.0276	0.0276	
1806175	92509	MB	PC	1 1/2"	710	Less than or equal to 60	Code 1		B	M	3/14/2018		3/14/2018			1	1	0.0612	0.0612	
1806246	92509	DB	PC	3/4"	770	Less than or equal to 60	Code 1		B	M	3/14/2018		3/14/2018			1	1	0.0276	0.0276	
1807277	92509	DB	PC	3/4"	722	Less than or equal to 60	Code 2		B	M	3/29/2018		3/30/2018			2	2	0.0276	0.0552	
1806262	92509	MB	PC	2"	866	Less than or equal to 60	Code 1		B	M	3/14/2018		3/14/2018			1	1	0.0612	0.0612	
1806350	92509	MB	PC	1 1/2"	830	Less than or equal to 60	Code 1		B	M	3/15/2018		3/15/2018			1	1	0.0612	0.0612	
1806443	92509	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1		B	M	3/16/2018		3/16/2018			1	1	0.0089	0.0089	
1806456	92105	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	M	3/16/2018		3/16/2018			1	1	0.0276	0.0276	
1806454	92405	DB	PC	3/4"	926	Less than or equal to 60	Code 1		B	M	3/16/2018		3/16/2018			1	1	0.0276	0.0276	
1806535	91902	DB	P	1/2" IPS	386	Less than or equal to 60	Code 1		B	M	3/19/2018		3/19/2018			1	1	0.0089	0.0089	
1807570	92509	DB	P	1/2" CTS	434	Less than or equal to 60	Code 2		B	M	4/2/2018		4/3/2018			2	2	0.0089	0.0178	
1806583	92509	DB	PC	3/4"	794	Less than or equal to 60	Code 1		B	M	3/19/2018		3/19/2018			1	1	0.0276	0.0276	
1806584	92509	DB	PC	3/4"	710	Less than or equal to 60	Code 1		B	M	3/19/2018		3/19/2018			1	1	0.0276	0.0276	
1806593	92106	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	M	3/19/2018		3/19/2018			1	1	0.0276	0.0276	
1806573		DB	PC	3/4"	698	Less than or equal to 60	Code 1		B	M	3/19/2018		3/19/2018			1	1	0.0276	0.0276	
1807644	91902	MB	P	1 1/4"	506	Less than or equal to 60	Code 2		B	S	4/3/2018		4/4/2018			94	2	0.2988	28.0872	
1806589		DB	PC	3/4"	734	Less than or equal to 60	Code 1		B	M	3/19/2018		3/19/2018			1	1	0.0276	0.0276	
1806595	92107	MB	PC	1"	830	Less than or equal to 60	Code 1		B	M	3/20/2018		3/20/2018			1	1	0.0612	0.0612	
1807791	92118	DB	PC	3/4"	698	Less than or equal to 60	Code 2		B	M	4/4/2018		4/5/2018			2	2	0.0276	0.0552	
1806601	92107	MB	PC	1 1/2"	830	Less than or equal to 60	Code 1		B	M	3/20/2018		3/20/2018			1	1	0.0612	0.0612	
1806723	92071	MB	P	3"	542	Less than or equal to 60	Code 1		B	M	3/20/2018		3/20/2018			1	1	0.2988	0.2988	
1806632	91910	DB	PC	3/4"	1010	Less than or equal to 60	Code 1		B	M	3/20/2018		3/20/2018			1	1	0.0276	0.0276	
1806665	92626	MB	PC	1 1/2"	866	Less than or equal to 60	Code 1		B	M	3/20/2018		3/20/2018			1	1	0.0612	0.0612	
1806792	92103	DB	PC	3/4"	554	Less than or equal to 60	Code 1		B	S	3/21/2018		3/22/2018			81	2	0.0276	2.2356	
1806807	92509	DB	PB	3/4"	590	Less than or equal to 60	Code 1		B	M	3/21/2018		3/21/2018			1	1	0.0276	0.0276	
1806801		DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	3/21/2018		3/21/2018			1	1	0.0276	0.0276	
1806914	92509	DB	P	1 1/4"	554	Less than or equal to 60	Code 1		B	M	3/22/2018		3/22/2018			1	1	0.0089	0.0089	
1806924	91945	DB	PC	3/4"	554	Less than or equal to 60	Code 1		B	M	3/23/2018		3/23/2018			1	1	0.0276	0.0276	
1806925	92114	DB	PC	3/4"	1091	Less than or equal to 60	Code 1		B	M	3/24/2018		3/24/2018			1	1	0.0276	0.0276	
1808499	92571	DB	PC	3/4"	590	Less than or equal to 60	Code 2		B	M	4/12/2018		4/13/2018			2	2	0.0276	0.0552	
1807008	92509	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	3/26/2018		3/26/2018			1	1	0.0276	0.0276	
1807037	92509	MB	PC	1 1/2"	998	Less than or equal to 60	Code 1		B	M	3/26/2018		3/26/2018			1	1	0.0612	0.0612	
1808687	92057	MB	P	3"	506	Less than or equal to 60	Code 2		B	M	4/16/2018		4/17/2018			2	2	0.2988	0.5976	
1807041	92104	MB	PC	3/4"		Less than or equal to 60	Code 1		B	M	3/26/2018		3/26/2018			1	1	0.0612	0.0612	
1807186	92102	DB	PC	3/4"	626	Less than or equal to 60	Code 1		B	S	3/28/2018		3/28/2018			87	1	0.0276	2.4012	
1808762	91911	MB	PC	1 1/2"	830	Less than or equal to 60	Code 2		B	M	4/17/2018		4/18/2018			2	2	0.0612	0.1224	
1807239	92509	DB	PC	3/4"	1101	Less than or equal to 60	Code 1		B	M	3/28/2018		3/28/2018			1	1	0.0276	0.0276	
1807247	92104	MB	P	2"	530	Less than or equal to 60	Code 1		B	S	3/28/2018		3/28/2018			87	1	0.2988	25.9956	
1808932	92116	MB	PC	4"	1064	Less than or equal to 60	Code 2		B	M	4/18/2018		4/19/2018			2	2	0.0612	0.1224	
1807276	92109	DB	P	1/2" IPS		Less than or equal to 60	Code 1		B	M	3/28/2018		3/28/2018			1	1	0.0089	0.0089	
1807306	92037	DB	PC	3/4"	650	Less than or equal to 60	Code 1		B	M	3/28/2018		3/28/2018			1	1	0.0276	0.0276	
1807390	92509	MB	PC	1 1/2"	686	Less than or equal to 60	Code 1		B	M	3/29/2018		3/29/2018			1	1	0.0612	0.0612	
1807420	92509	MB	PC	3/4"	698	Less than or equal to 60	Code 1		B	M	3/29/2018		3/29/2018			1	1	0.0612	0.0612	
1807379	93436	MB	PC	2"	830	Less than or equal to 60	Code 1		B	M	3/29/2018		3/29/2018			1	1	0.0612	0.0612	
1807470	92509	DB	PC	3/4"	842	Less than or equal to 60	Code 1		B	M	3/30/2018		3/30/2018			1	1	0.0276	0.0276	
1809372	92116	DB	PC	3/4"	1104	Less than or equal to 60	Code 2		B	M	4/23/2018		4/24/2018			2	2	0.0276	0.0552	
1807483	92127	MB	P	3"	458	Less than or equal to 60	Code 1		B	M	3/30/2018		3/30/2018			1	1	0.2988	0.2988	
1807477	90303	DB	PC	3/4"	602	Less than or equal to 60	Code 1		B	M	3/30/2018		3/30/2018			1	1	0.0276	0.0276	
1807485	92509	DB	P	1 1/4"	542	Less than or equal to 60	Code 1		B	S	3/31/2018		4/1/2018			91	2	0.0089	0.8099	
1807616	92509	DB	P	1/2" CTS	410	Less than or equal to 60	Code 1		B	S	3/31/2018		3/31/2018			90	1	0.0089	0.801	
1807511	92509	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1		B	M	4/1/2018		4/1/2018			1	1	0.0089	0.0089	
1809549	92116	DB	PC	3/4"	1104	Less than or equal to 60	Code 2		B	M	4/24/2018		4/25/2018			2	2	0.0276	0.0552	
1807596	92509	DB	P	1"	518	Less than or equal to 60	Code 1		B	M	4/1/2018		4/1/2018			1	1	0.0089	0.0089	
1807590	92509	DB	P	1/2" CTS	518	Less than or equal to 60	Code 1		B	S	4/2/2018		4/3/2018			93	2	0.0089	0.8277	
1807593	92106	DB	PC	3/4"	1130	Less than or equal to 60	Code 1		B	M	4/2/2018		4/2/2018			1	1	0.0276	0.0276	
1809685	92571	MB	PC	1 1/2"	902	Less than or equal to 60	Code 2		B	M	4/25/2018		4/26/2018			2	2	0.0612	0.1224	
1807654	92071	DB	P	1/2" IPS	542	Less than or equal to 60	Code 1		B	M	4/2/2018		4/2/2018			1	1	0.0089	0.0089	
1807719	92571	DB	PB	3/4"	710	Less than or equal to 60	Code 1		B	S	4/3/2018		4/4/2018			94	2	0.0276	2.5944	
1807826	92571	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	4/4/2018		4/4/2018			1	1	0.0276	0.0276	
1807829	92019	MB	PC	1 1/2"	746	Less than or equal to 60	Code 1		B	M	4/4/2018		4/4/2018			1	1	0.0612	0.0612	
1807831	92571	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1		B	M	4/4/2018		4/4/2018			1	1	0.0089	0.0089	
1807905	92571	DB	P	1 1/4"		Less than or equal to 60	Code 1		B	S	4/5/2018		4/5/2018			95	1	0.0089	0.8455	
1809962	92571	MB	PC	2"	758	Less than or equal to 60	Code 2		B	M	4/27/2018		4/28/2018			2	2	0.0612	0.1224	
1807906	92104	MB	P	2"	530	Less than or equal to 60	Code 1		B	S	4/5/2018		4/6/2018			96	2	0.2988	28.6848	
1807917	92057	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	4/5/2018		4/5/2018			1	1	0.0276	0.0276	
1810105	92571	MB	PC	2"	950	Less than or equal to 60	Code 2		B	M	4/30/2018		5/1/2018			2	2	0.0612	0.1224	
1810173	92116	MB	PC	2"	1111	Less than or equal to 60	Code 2		B	M	5/1/2018		5/2/2018			2	2	0.0612	0.1224	
1810219	92113	MB	PC	1 1/2"	878	Less than or equal to 60	Code 2		B	M	5/1/2018		5/2/2018			2	2	0.0612	0.1224	
1807918	92021	MB	P	1 1/4"	494	Less than or equal to 60	Code 1		B	M	4/5/2018		4/5/2018			1	1	0.2988	0.2988	
1808220	92115	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	4/10/2018		4/10/2018			1	1	0.0276	0.0276	
1808275	92037	MB	PC	2"	986	Less than or equal to 60	Code 1		B	S	4/10/2018		4/10/2018			100	1	0.0612	6.12	

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Upgraded Leak Grade or Downgraded Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Re-Grade Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Number of Days to Repair	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1808297	91902	DB	PC	3/4"	578	Less than or equal to 60	Code 1		B	M	4/10/2018		4/10/2018			1	1	0.0276	0.0276	
1810437	92571	MB	PC	1 1/2"	974	Less than or equal to 60	Code 2		B	M	5/3/2018		5/4/2018			2	2	0.0612	0.1224	
1808394	92571	MB	PC	2"	1010	Less than or equal to 60	Code 1		B	S	4/11/2018		4/11/2018			101	1	0.0612	6.1812	
1808508	92120	DB	PC	3/4"	662	Less than or equal to 60	Code 1		B	M	4/12/2018		4/12/2018			1	1	0.0276	0.0276	
1808550	92571	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1		B	S	4/13/2018		4/13/2018			103	1	0.0089	0.9167	
1810680	91950	DB	PC	1 1/2"	962	Less than or equal to 60	Code 2		B	M	5/7/2018		5/8/2018			2	2	0.0276	0.0552	
1808653	92571	DB	PC	3/4"	734	Less than or equal to 60	Code 1		B	M	4/15/2018		4/15/2018			1	1	0.0276	0.0276	
1808713	92571	DB	PC	3/4"	578	Less than or equal to 60	Code 1		B	M	4/16/2018		4/16/2018			1	1	0.0276	0.0276	
1808759	91950	DB	PC	1"	614	Less than or equal to 60	Code 1		B	M	4/16/2018		4/16/2018			1	1	0.0276	0.0276	
1811015	92115	DB	PC	3/4"	686	Less than or equal to 60	Code 2		B	M	5/10/2018		5/11/2018			2	2	0.0276	0.0552	
1811201	92571	MB	P	3"	554	Less than or equal to 60	Code 2		B	S	5/14/2018		5/15/2018			135	2	0.2988	40.338	
1808765	92571	DB	P	1/2" CTS	410	Less than or equal to 60	Code 1		B	M	4/16/2018		4/16/2018			1	1	0.0089	0.0089	
1808897	92071	MB	P	2"	494	Less than or equal to 60	Code 1		B	S	4/18/2018		4/18/2018			108	1	0.2988	32.2704	
1809010	92104	MB	PC	1 1/2"	926	Less than or equal to 60	Code 1		B	M	4/18/2018		4/18/2018			1	1	0.0612	0.0612	
1809024	92571	MB	P	2"		Less than or equal to 60	Code 1		B	M	4/18/2018		4/18/2018			1	1	0.2988	0.2988	
1809143	92571	DB	PC	3/4"	734	Less than or equal to 60	Code 1		B	M	4/19/2018		4/19/2018			1	1	0.0276	0.0276	
1809158	92117	MB	PC	2"	758	Less than or equal to 60	Code 1		B	M	4/19/2018		4/19/2018			1	1	0.0612	0.0612	
1809246	92120	DB	PC	3/4"	746	Less than or equal to 60	Code 1		B	M	4/20/2018		4/20/2018			1	1	0.0276	0.0276	
1809281	92037	DB	PC	3/4"	734	Less than or equal to 60	Code 1		B	M	4/21/2018		4/21/2018			1	1	0.0276	0.0276	
1809282	92037	DB	PC	3/4"	734	Less than or equal to 60	Code 1		B	M	4/21/2018		4/21/2018			1	1	0.0276	0.0276	
1809401	91941	DB	PC	3/4"	926	Less than or equal to 60	Code 1		B	M	4/23/2018		4/23/2018			1	1	0.0276	0.0276	
1809486	92571	DB	PC	3/4"	674	Less than or equal to 60	Code 1		B	M	4/23/2018		4/23/2018			1	1	0.0276	0.0276	
1809583	92083	DB	PB	3/4"	698	Less than or equal to 60	Code 1		B	M	4/23/2018		4/23/2018			1	1	0.0276	0.0276	
1812115	92571	DB	PC	3/4"	842	Less than or equal to 60	Code 2		B	M	5/23/2018		5/24/2018			2	2	0.0276	0.0552	
1809501	92571	DB	PC	3/4"	878	Less than or equal to 60	Code 1		B	M	4/24/2018		4/24/2018			1	1	0.0276	0.0276	
1809522	92571	MB	P	2"	386	Less than or equal to 60	Code 1		B	M	4/24/2018		4/24/2018			1	1	0.2988	0.2988	
1809533	92571	MB	PC	2"	770	Less than or equal to 60	Code 1		B	M	4/24/2018		4/24/2018			1	1	0.0612	0.0612	
1809559	92571	DB	P	1/2" CTS		Less than or equal to 60	Code 1		B	M	4/24/2018		4/24/2018			1	1	0.0089	0.0089	
1809623	92116	MB	PC	2"	1122	Less than or equal to 60	Code 1		B	M	4/25/2018		4/25/2018			1	1	0.0612	0.0612	
1809705	92571	MB	PC	2"	1122	Less than or equal to 60	Code 1		B	M	4/25/2018		4/25/2018			1	1	0.0612	0.0612	
1809754	91950	MB	PC	2"	362	Less than or equal to 60	Code 1		B	M	4/26/2018		4/26/2018			1	1	0.0612	0.0612	
1813044	92571	MB	PC	2"	866	Less than or equal to 60	Code 2		B	M	6/5/2018		6/6/2018			2	2	0.0612	0.1224	
1809771	92571	MB	PC	1 1/2"	770	Less than or equal to 60	Code 1		B	S	4/26/2018		4/27/2018			117	2	0.0612	7.1604	
1809822	92115	MB	PC	1 1/2"	818	Less than or equal to 60	Code 1		B	M	4/26/2018		4/26/2018			1	1	0.0612	0.0612	
1809847	92571	DB	PC	3/4"	866	Less than or equal to 60	Code 1		B	M	4/26/2018		4/26/2018			1	1	0.0276	0.0276	
1809954	92571	MB	PC	1 1/2"	746	Less than or equal to 60	Code 1		B	M	4/26/2018		4/26/2018			1	1	0.0612	0.0612	
1809965	92571	DB	PC	3/4"	746	Less than or equal to 60	Code 1		B	M	4/27/2018		4/27/2018			1	1	0.0276	0.0276	
1809980	92084	MB	P	2"		Less than or equal to 60	Code 1		B	M	4/28/2018		4/28/2018			1	1	0.2988	0.2988	
1813588	92571	MB	PC	1 1/2"	974	Less than or equal to 60	Code 2		B	S	6/12/2018		6/13/2018			164	2	0.0612	10.0368	
1813626	92571	DB	PB	3/4"	686	Less than or equal to 60	Code 2		B	M	6/12/2018		6/13/2018			2	2	0.0276	0.0552	
1810232	92021	MB	P	1 1/4"	506	Less than or equal to 60	Code 1		B	M	5/1/2018		5/1/2018			1	1	0.2988	0.2988	
1813817	92571	MB	P	2"	542	Less than or equal to 60	Code 2		B	S	6/14/2018		6/15/2018			166	2	0.2988	49.6008	
1813818	92071	MB	P	2"	542	Less than or equal to 60	Code 2		B	S	6/14/2018		6/15/2018			166	2	0.2988	49.6008	
1810411	92571	MB	PC	1 1/2"	1094	Less than or equal to 60	Code 1		B	M	5/1/2018		5/1/2018			1	1	0.0612	0.0612	
1813938	92116	DB	PC	3/4"	626	Less than or equal to 60	Code 2		B	S	6/16/2018		6/17/2018			168	2	0.0276	4.6368	
1814046	92571	MB	PC	1 1/2"	710	Less than or equal to 60	Code 2		B	S	6/19/2018		6/20/2018			171	2	0.0612	10.4652	
1814125	92020	MB	PC	1 1/2"	854	Less than or equal to 60	Code 3		B	M	6/19/2018		6/20/2018			2	2	0.0612	0.1224	
1810364	92571	DB	PC	3/4"	770	Less than or equal to 60	Code 1		B	M	5/3/2018		5/3/2018			1	1	0.0276	0.0276	
1810369	92571	MB	PC	2"	794	Less than or equal to 60	Code 1		B	S	5/3/2018		5/3/2018			123	1	0.0612	7.5276	
1814452	92571	DB	PC	1"	842	Less than or equal to 60	Code 2		B	M	6/22/2018		6/23/2018			2	2	0.0276	0.0552	
1810457	92116	MB	PC	1 1/4"	1111	Less than or equal to 60	Code 1		B	M	5/3/2018		5/3/2018			1	1	0.0612	0.0612	
1810459	92115	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	5/3/2018		5/3/2018			1	1	0.0276	0.0276	
1814890	92571	DB	PC	1"	350	Less than or equal to 60	Code 2		B	M	6/27/2018		6/28/2018			2	2	0.0276	0.0552	
1810625	92115	DB	PC	3/4"	806	Less than or equal to 60	Code 1		B	M	5/7/2018		5/7/2018			1	1	0.0276	0.0276	
1810652	92040	DB	P	1"	17	Less than or equal to 60	Code 1		B	M	5/7/2018		5/7/2018			1	1	0.0089	0.0089	
1810685	92530	DB	PC	3/4"	830	Less than or equal to 60	Code 1		B	M	5/7/2018		5/7/2018			1	1	0.0276	0.0276	
1810782	92571	DB	PC	3/4"	578	Less than or equal to 60	Code 1		B	S	5/8/2018		5/8/2018			128	1	0.0276	3.5328	
1810861	92571	DB	P	1/2" CTS	566	Less than or equal to 60	Code 1		B	M	5/9/2018		5/9/2018			1	1	0.0089	0.0089	
1810895	92571	DB	PC	3/4"	1108	Less than or equal to 60	Code 1		B	M	5/9/2018		5/9/2018			1	1	0.0276	0.0276	
1811364	91941	DB	PC	3/4"	962	Less than or equal to 60	Code 1		B	S	5/15/2018		5/16/2018			136	2	0.0276	3.7536	
1816091	92024	MB	PC	2"	722	Less than or equal to 60	Code 2		B	M	7/13/2018		7/14/2018			2	2	0.0612	0.1224	
1811381	92054	MB	P	3"	470	Less than or equal to 60	Code 1		B	M	5/15/2018		5/15/2018			1	1	0.2988	0.2988	
1811428	92571	DB	P	2"	566	Less than or equal to 60	Code 1		B	S	5/16/2018		5/17/2018			137	2	0.0089	1.2193	
1816277	92264	DB	P	1 1/4"	494	Less than or equal to 60	Code 2		B	M	7/17/2018		7/18/2018			2	2	0.0089	0.0178	
1811489	92116	DB	PC	3/4"	710	Less than or equal to 60	Code 1		B	M	5/16/2018		5/16/2018			1	1	0.0276	0.0276	
1811494	92083	MB	PC	1 1/2"	662	Less than or equal to 60	Code 1		B	M	5/16/2018		5/16/2018			1	1	0.0612	0.0612	
1811495	91977	DB	PC	3/4"	602	Less than or equal to 60	Code 1		B	M	5/16/2018		5/16/2018			1	1	0.0276	0.0276	
1811420	92120	DB	PC	3/4"	758	Less than or equal to 60	Code 1		B	M	5/16/2018		5/16/2018			1	1	0.0276	0.0276	
1811625	91945	MB	PC	2"	662	Less than or equal to 60	Code 1		B	M	5/17/2018		5/17/2018			1	1	0.0612	0.0612	
1816813	92007	DB	PC	3/4"	782	Less than or equal to 60	Code 2		B	S	7/24/2018		7/25/2018			206	2	0.0276	5.6856	
1811741	92571	MB	P	3"		Less than or equal to 60	Code 1		B	M	5/18/2018		5/18/2018			1	1	0.2988	0.2988	
1811757	92105	MB	PC	1 1/2"	782	Less than or equal to 60	Code 1		B	M	5/19/2018		5/19/2018			1	1	0.0612	0.0612	
1811877	92105	DB	PC	3/4"	878	Less than or equal to 60	Code 1		B	M	5/21/2018		5/21/2018			1	1	0.0276	0.0276	
1817415	92075	MB	P	1 1/4"	518	Less than or equal to 60	Code 2		B	S	7/31/2018		8/1/2018			213	2	0.2988	63.6444	
1812012	92021	MB	PC	1 1/2"	602	Less than or equal to 60	Code 1		B	S	5/22/2018		5/23/2018			143	2	0.0612	8.7516	
1812014	92102	DB	P	1 1/4"	527	Less than or equal to 60	Code 1		B	M	5/22/2018		5/22/2018			1	1	0.0089	0.0089	
1817634	DB	PC	1"	842	Less than or equal to 60	Code 2		B	M	8/2/2018		8/3/2018			2	2	0.0276	0.0552		
1812268	91977	DB	PC	3/4"	746	Less than or equal to 60	Code 1		B	M	5/24/2018		5/24/2018			1	1	0.0276	0.0276	
1812329	92120	DB	PC	3/4"	758	Less than or equal to 60	Code 1		B	M	5/25/2018		5/25/2018			1	1	0.0276	0.0276	
1812524	92571	DB	PC	3/4"	650	Less than or equal to 60	Code 1		B	M	5/29/2018		5/29/2018			1	1	0.0276	0.0276	
1817928	92270	MB	PC	2"	530	Less than or equal to 60	Code 2		B	M	8/7/2018		8/8/2018			2	2	0.0612	0.1224	
1812556	92105	MB	PC	1 1/2"	914	Less than or equal to 60	Code 1		B	M	5/29/2018		5/29/2018			1	1	0.0612	0.0612	
1812669	92020	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	S	5/30/2018		5/31/2018			151	2	0.0276	4.1676	
1812677	92113	DB	PC	3/4"	842	Less than or equal to 60	Code 1		B	M	5/30/2018		5/30/2018			1	1	0.0276	0.0276	
1812646	92139	DB	PC	3/4"	854	Less than or equal to 60	Code 1		B	M	5/30/2018		5/30/2018			1	1	0.0276	0.0276	
1818228	92270	DB	PC	3/4"	806	Less than or equal to 60	Code 2		B	M	8/11/2018		8/12/2018			2	2	0.0276	0.0552	
1818451	92270	MB	PC	1 1/2"	686	Less than or equal to 60	Code 2		B	M	8/14/2018		8/15/2018			2	2	0.0612	0.1224	
1812721	92571	DB	PC	3/4"	890	Less than or equal to 60	Code 1		B	S	5/31/2018		6/1/2018			152	2	0.0276	4.1952	
1818547	92078	MB	P	3"		Less than or equal to 60	Code 2		B	M	8/15/2018		8/16/2018			2	2	0.2988	0.5976	
1813059	92571	DB	PC	3/4"	482	Less than or equal to 60	Code 1		B	S	6/5/2018		6/6/2018			157	2	0.0276	4.3332	
1813075	92008	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	M	6/5/2018		6/5/2018			1	1	0.0276	0.0276	
1813172	92571	DB	PC	3/4"	710	Less than or equal to 60	Code 1		B	M	6/6/2018		6/6/2018			1	1	0.0276	0.0276	
1813280	92571	DB	PC	3/4"		Less than or equal to 60	Code 1		B	M	6/7/2018		6/7/2018			1	1	0.0276	0.0276	
1813288	92103	MB	P	2"	542	Less than or equal to 60	Code 1		B	M	6/7/2018		6/7/2018			1	1	0.2988	0.2988	
1813426	92057	DB	P	1/2" CTS	518	Less than or equal to 60	Code 1		B	M	6/9/2018		6/9/2018			1	1	0.0089	0.0089	
1813572	92116	DB	PC	3/4"	842	Less than or equal to 60	Code 1		B	M	6/12/2018		6/12/2018			1	1	0.0276	0.0276	
1813724	92037	DB	PC	3/4"	686	Less than or equal to 60	Code 1		B	M	6/13/2018		6/13/2018			1	1	0.0276	0.0276	
1813882	92571	DB	P	2"	578	Less than or equal to 60	Code 1		B	M	6/15/2018		6/15/2018			1	1	0.0089	0.0089	
1814137	92020	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1		B	S	6/19/2018		6/19/2018			170	1	0.0089	1.513	
1819676	92014	MB	PC	2"	1058	Less than or equal to 60	Code 3		B	M	8/28/2018		8/29/2018			2	2	0.0612	0.1224	
1814429	92571	MB	P	3"	506	Less than or equal to 60	Code 1		B	M	6/19/2018		6/19/2018			1	1	0.2988	0.2988	
1814738	92571	DB	PC	3/4"	662	Less than or equal to 60	Code 1		B	M	6/26/2018		6/26/2018			1	1	0.0276	0.0276	
1814836	92111	DB	PC	3/4"	614	Less than or equal to 60	Code 1		B	S	6/27/2018		6/28/2018			179	2	0.0276	4.9404	
1815006	92571	DB	PC	3/4"	770	Less than or equal to 60	Code 1		B	M	6/28/2018		6/28/2018			1	1	0.0276	0.0276	
1815096	92124	MB	P	3"	326	Less than or equal to 60	Code 1		B	M	6/29/2018		6/29/2018			1	1	0.2988	0.2988	
1815230	92037	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	M	7/2/2018		7/2/2018			1	1	0.0276	0.0276	
1815337	92078	MB	P	2"	21	Less than or equal to 60	Code 1		B	M	7/3/2018		7/3/2018			1	1	0.2988	0.2988	
1815512	91910	DB	PC	3/4"	890	Less than or equal to 60	Code 1		B	M	7/6/2018		7/6/2018			1	1	0.0276	0.0276	
1815634	92264	MB	PC	20"	650	Less than or equal to 60	Code 1		B	M	7/9/2018		7/9/2018			1	1	0.0612	0.0612	
1816048	92071	MB	P	2"	398	Less than or equal to 60	Code 1		B	M	7/13/2018		7/13/2018			1	1	0.2988	0.2988	
1820394	92270	MB	P	2"	566	Less than or equal to 60	Code 2		B	S	9/7/2018		9/8/2018			251	2	0.2988	74.9988	
1816191	92264	DB	PC	3/4"	698	Less than or equal to 60	Code 1		B	M	7/16/2018		7/16/2018			1	1	0.0276	0.0276	
1816194	92025	DB	PC	1"	818	Less than or equal to 60	Code 1		B	M	7/16/2018		7/16/2018			1	1	0.0276	0.0276	

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Upgraded Leak Grade or Downgraded Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Re-Grade Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Number of Days to Repair	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1816300	92264	MB	PC	2"	220	Less than or equal to 60	Code 1		B	M	7/16/2018		7/16/2018			1	1	0.0612	0.0612	
1820435	92270	MB	PC	3"	650	Less than or equal to 60	Code 2		B	M	9/7/2018		9/8/2018			2	2	0.0612	0.1224	
1816122	92505	MB	P	2"	566	Less than or equal to 60	Code 1		B	M	7/16/2018		7/16/2018			1	1	0.2988	0.2988	
1820525	92270	DB	PC	3/4"	650	Less than or equal to 60	Code 2		B	M	9/10/2018		9/11/2018			2	2	0.0276	0.0552	
1816416	91950	DB	PC	1 1/4"	1100	Less than or equal to 60	Code 1		B	M	7/18/2018		7/18/2018			1	1	0.0276	0.0276	
1820655	92270	MB	P	2"	410	Less than or equal to 60	Code 2		B	M	9/11/2018		9/12/2018			2	2	0.2988	0.5976	
1816532	92126	DB	P	1/2" CTS	590	Less than or equal to 60	Code 1		B	M	7/19/2018		7/19/2018			1	1	0.0089	0.0089	
1816644	92007	DB	P	1/2" IPS	506	Less than or equal to 60	Code 1		B	S	7/20/2018		7/20/2018			201	1	0.0089	1.7889	
1816710	92264	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	7/23/2018		7/23/2018			1	1	0.0276	0.0276	
1820902	92270	MB	P	2"	566	Less than or equal to 60	Code 2		B	S	9/13/2018		9/14/2018			257	2	0.2988	76.7916	
1820904	92270	MB	PC	4"	278	Less than or equal to 60	Code 2		B	M	9/13/2018		9/14/2018			2	2	0.0612	0.1224	
1816797	92057	MB	PC	1"	650	Less than or equal to 60	Code 1		B	M	7/23/2018		7/23/2018			1	1	0.0612	0.0612	
1816787	91945	DB	PC	3/4"	686	Less than or equal to 60	Code 1		B	M	7/23/2018		7/23/2018			1	1	0.0276	0.0276	
1821281	92270	DB	PC	3/4"	650	Less than or equal to 60	Code 2		B	M	9/18/2018		9/19/2018			2	2	0.0276	0.0552	
1816953	92084	DB	P	1/2" IPS	542	Less than or equal to 60	Code 1		B	M	7/24/2018		7/24/2018			1	1	0.0089	0.0089	
1817031	92264	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1		B	M	7/25/2018		7/25/2018			1	1	0.0089	0.0089	
1817391	92264	DB	PC	1"	698	Less than or equal to 60	Code 1		B	M	7/30/2018		7/30/2018			1	1	0.0276	0.0276	
1817488	92264	MB	PC	1 1/2"	854	Less than or equal to 60	Code 1		B	M	8/1/2018		8/1/2018			1	1	0.0612	0.0612	
1817566	92264	MB	PC	2"	638	Less than or equal to 60	Code 1		B	M	8/1/2018		8/1/2018			1	1	0.0612	0.0612	
1822087	92270	DB	P	1/2" CTS	506	Less than or equal to 60	Code 2		B	S	9/26/2018		9/27/2018			270	2	0.0089	2.403	
1822150	92270	MB	PC	2"	866	Less than or equal to 60	Code 3		B	M	9/26/2018		9/27/2018			2	2	0.0612	0.1224	
1817645	92105	DB	PC	1"	734	Less than or equal to 60	Code 1		B	M	8/2/2018		8/2/2018			1	1	0.0276	0.0276	
1822312	92270	DB	PC	3/4"	818	Less than or equal to 60	Code 2		B	S	9/29/2018		9/30/2018			273	2	0.0276	7.5348	
1817712	92270	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1		B	M	8/3/2018		8/3/2018			1	1	0.0089	0.0089	
1822386	92084	DB	PC	3/4"	770	Less than or equal to 60	Code 2		B	M	10/1/2018		10/2/2018			2	2	0.0276	0.0552	
1817739	92024	MB	P	3"		Less than or equal to 60	Code 1		B	M	8/3/2018		8/3/2018			1	1	0.2988	0.2988	
1818011	DB	PC	3/4"	794	Less than or equal to 60	Code 1		B	S	8/8/2018		8/8/2018			220	1	0.0276	6.072		
1822700	92270	DB	PC	3/4"	722	Less than or equal to 60	Code 2		B	M	10/4/2018		10/5/2018			2	2	0.0276	0.0552	
1822708	92116	MB	PC	1 1/2"	818	Less than or equal to 60	Code 2		B	M	10/4/2018		10/5/2018			2	2	0.0612	0.1224	
1818077	92103	DB	PC	1 1/4"	674	Less than or equal to 60	Code 1		B	M	8/9/2018		8/9/2018			1	1	0.0276	0.0276	
1818115	92130	MB	P	2"	422	Less than or equal to 60	Code 1		B	S	8/9/2018		8/10/2018			222	2	0.2988	66.3336	
1823058	92270	MB	PC	2"	1113	Less than or equal to 60	Code 2		B	M	10/10/2018		10/11/2018			2	2	0.0612	0.1224	
1818140	92129	DB	P	1/2" IPS	494	Less than or equal to 60	Code 1		B	M	8/9/2018		8/9/2018			1	1	0.0089	0.0089	
1818210	92105	DB	PC	3/4"	770	Less than or equal to 60	Code 1		B	M	8/10/2018		8/10/2018			1	1	0.0276	0.0276	
1818468	92270	DB	PC	3/4"	674	Less than or equal to 60	Code 1		B	M	8/15/2018		8/15/2018			1	1	0.0276	0.0276	
1818548	92270	MB	PC	2"	722	Less than or equal to 60	Code 1		B	M	8/15/2018		8/15/2018			1	1	0.0612	0.0612	
1823329	92083	MB	PC	3"	794	Less than or equal to 60	Code 2		B	M	10/12/2018		10/13/2018			2	2	0.0612	0.1224	
1818626	92102	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1		B	M	8/15/2018		8/15/2018			1	1	0.0089	0.0089	
1818669	92127	MB	P	2"	583	Less than or equal to 60	Code 1		B	S	8/16/2018		8/17/2018			229	2	0.2988	68.4252	
1819014	91941	MB	PC	3/4"	842	Less than or equal to 60	Code 1		B	M	8/21/2018		8/21/2018			1	1	0.0612	0.0612	
1823564	92270	MB	unknown	2"	350	Less than or equal to 60	Code 2		B	M	10/16/2018		10/17/2018			2	2	0.060	0.12	
1819129	PC	3/4"	734	Less than or equal to 60	Code 1		B	M	8/22/2018		8/22/2018			1	1	0.0276	0.0276			
1823672	92102	DB	Unknown	3/4"	806	Less than or equal to 60	Code 2		B	M	10/17/2018		11/1/2018			16	16	0.060	0.96	
1819264	92129	MB	P	2"	494	Less than or equal to 60	Code 1		B	M	8/23/2018		8/23/2018			1	1	0.2988	0.2988	
1819373	92270	DB	PC	3/4"	806	Less than or equal to 60	Code 1		B	M	8/24/2018		8/24/2018			1	1	0.0276	0.0276	
1823820	92270	MB	P	2"	554	Less than or equal to 60	Code 2		B	S	10/19/2018		10/20/2018			293	2	0.2988	87.5484	
1819398	92270	MB	P	2"		Less than or equal to 60	Code 1		B	M	8/25/2018		8/25/2018			1	1	0.2988	0.2988	
1823940	92270	DB	PC	3/4"	674	Less than or equal to 60	Code 2		B	M	10/22/2018		10/23/2018			2	2	0.0276	0.0552	
1823944	92057	DB	PC	3/4"	674	Less than or equal to 60	Code 2		B	M	10/22/2018		10/23/2018			2	2	0.0276	0.0552	
1819413	92105	DB	PC	3/4"	830	Less than or equal to 60	Code 1		B	M	8/26/2018		8/26/2018			1	1	0.0276	0.0276	
1819560	92270	MB	P	2"	42	Less than or equal to 60	Code 1		B	M	8/27/2018		8/27/2018			1	1	0.2988	0.2988	
1819641	92270	MB	PC	2"	830	Less than or equal to 60	Code 1		B	M	8/27/2018		8/27/2018			1	1	0.0612	0.0612	
1819722	92110	DB	PC	3/4"	830	Less than or equal to 60	Code 1		B	M	8/28/2018		8/28/2018			1	1	0.0276	0.0276	
1824155	92029	MB	P	2"	458	Less than or equal to 60	Code 2		B	S	10/24/2018		10/25/2018			298	2	0.2988	89.0424	
1819718	92110	DB	PC	3/4"	614	Less than or equal to 60	Code 1		B	M	8/29/2018		8/29/2018			1	1	0.0276	0.0276	
1819983	92270	MB	P	2"	374	Less than or equal to 60	Code 1		B	S	8/31/2018		9/1/2018			244	2	0.2988	72.9072	
1820045	92029	MB	P	2"	542	Less than or equal to 60	Code 1		B	M	9/1/2018		9/1/2018			1	1	0.2988	0.2988	
1820053	92270	MB	P	2"	541	Less than or equal to 60	Code 1		B	M	9/2/2018		9/2/2018			1	1	0.2988	0.2988	
1820054	92270	DB	PC	3/4"	770	Less than or equal to 60	Code 1		B	M	9/2/2018		9/2/2018			1	1	0.0276	0.0276	
1820062	92270	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	M	9/3/2018		9/3/2018			1	1	0.0276	0.0276	
1824470	92270	DB	P	1 1/4"	542	Less than or equal to 60	Code 2		B	M	10/29/2018		10/30/2018			2	2	0.0089	0.0178	
1820173	92009	MB	P	3"	482	Less than or equal to 60	Code 1		B	M	9/5/2018		9/5/2018			1	1	0.2988	0.2988	
1820296	92270	DB	P	1 1/4"	578	Less than or equal to 60	Code 1		B	S	9/6/2018		9/7/2018			250	2	0.0089	2.225	
1824669	92270	MB	PC	1 1/2"	782	Less than or equal to 60	Code 2		B	M	10/31/2018		11/1/2018			2	2	0.0612	0.1224	
1820340	92129	DB	P	1 1/4"	494	Less than or equal to 60	Code 1		B	M	9/6/2018		9/6/2018			1	1	0.0089	0.0089	
1824731	92069	DB	PC	2"	710	Less than or equal to 60	Code 2		B	M	11/1/2018		11/2/2018			2	2	0.0276	0.0552	
1820397	92270	DB	Unknown	3/4"	662	Less than or equal to 60	Code 1		B	M	9/6/2018		9/6/2018			1	1	0.060	0.06	
1820369	92020	DB	PC	3/4"	878	Less than or equal to 60	Code 1		B	M	9/6/2018		9/6/2018			1	1	0.0276	0.0276	
1824841	92270	DB	PC	3/4"	1074	Less than or equal to 60	Code 2		B	M	11/4/2018		11/5/2018			2	2	0.0276	0.0552	
1820409	92025	MB	PC	2"	470	Less than or equal to 60	Code 1		B	S	9/7/2018		9/8/2018			251	2	0.0612	15.3612	
1820432	92037	DB	P	1 1/4"	534	Less than or equal to 60	Code 1		B	M	9/7/2018		9/7/2018			1	1	0.0089	0.0089	
1820454	92270	MB	P	2"	476	Less than or equal to 60	Code 1		B	M	9/7/2018		9/7/2018			1	1	0.2988	0.2988	
1820672	92270	MB	P	2"	56	Less than or equal to 60	Code 1		B	M	9/9/2018		9/9/2018			1	1	0.2988	0.2988	
1825054	92081	DB	PC	3/4"	770	Less than or equal to 60	Code 2		B	M	11/8/2018		11/9/2018			2	2	0.0276	0.0552	
1825120	92270	MB	PC	2"	602	Less than or equal to 60	Code 2		B	M	11/9/2018		11/10/2018			2	2	0.0612	0.1224	
1820649	92029	MB	P	2"	518	Less than or equal to 60	Code 1		B	S	9/11/2018		9/12/2018			255	2	0.2988	76.194	
1820716	92129	MB	P	1/2" CTS		Less than or equal to 60	Code 1		B	M	9/12/2018		9/12/2018			1	1	0.2988	0.2988	
1820728	92116	MB	PC	1 1/2"	614	Less than or equal to 60	Code 1		B	M	9/12/2018		9/12/2018			1	1	0.0612	0.0612	
1820821	92064	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1		B	S	9/13/2018		9/13/2018			256	1	0.0089	2.2784	
1821065	92075	DB	PC	3/4"	758	Less than or equal to 60	Code 1		B	M	9/14/2018		9/14/2018			1	1	0.0276	0.0276	
1825197	91910	DB	PC	3/4"	878	Less than or equal to 60	Code 2		B	M	11/12/2018		11/13/2018			2	2	0.0276	0.0552	
1821055	92270	MB	P	1 1/4"	470	Less than or equal to 60	Code 1		B	M	9/15/2018		9/15/2018			1	1	0.2988	0.2988	
1821425	92114	DB	PC	3/4"	710	Less than or equal to 60	Code 1		B	M	9/18/2018		9/18/2018			1	1	0.0276	0.0276	
1825315	92057	DB	P	1 1/4"	482	Less than or equal to 60	Code 2		B	M	11/14/2018		11/15/2018			2	2	0.0089	0.0178	
1821420	92014	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	S	9/19/2018		9/20/2018			263	2	0.0276	7.2588	
1821567	92270	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1		B	M	9/20/2018		9/20/2018			1	1	0.0089	0.0089	
1825344	92075	DB	PC	3/4"	842	Less than or equal to 60	Code 2		B	M	11/14/2018		11/15/2018			2	2	0.0276	0.0552	
1821599	92037	DB	PC	3/4"	890	Less than or equal to 60	Code 1		B	M	9/21/2018		9/21/2018			1	1	0.0276	0.0276	
1821703		MB	P	3"	446	Less than or equal to 60	Code 1		B	M	9/22/2018		9/22/2018			1	1	0.2988	0.2988	
1821806	92064	MB	P	2"	566	Less than or equal to 60	Code 1		B	S	9/24/2018		9/25/2018			268	2	0.2988	80.0784	
1822100	92115	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	9/26/2018		9/26/2018			1	1	0.0276	0.0276	
1822221	92104	MB	PC	1 1/2"	1083	Less than or equal to 60	Code 1		B	M	9/27/2018		9/27/2018			1	1	0.0612	0.0612	
1825499	92270	MB	P	2"	494	Less than or equal to 60	Code 2		B	S	11/17/2018		11/18/2018			322	2	0.2988	96.2136	
1822326	92270	MB	P	2"	494	Less than or equal to 60	Code 1		B	S	9/29/2018		9/30/2018			273	2	0.2988	81.5724	
1822628	92120	MB	P	2"	566	Less than or equal to 60	Code 1		B	M	10/3/2018		10/3/2018			1	1	0.2988	0.2988	
1822672	92270	MB	PC	2"	878	Less than or equal to 60	Code 1		B	M	10/4/2018		10/4/2018			1	1	0.0612	0.0612	
1822710	91304	DB	PC	3/4"	602	Less than or equal to 60	Code 1		B	M	10/4/2018		10/4/2018			1	1	0.0276	0.0276	
1822813	92021	MB	P	2"	566	Less than or equal to 60	Code 1		B	M	10/5/2018		10/5/2018			1	1	0.2988	0.2988	
1822919	92270	DB	PC	3/4"	1098	Less than or equal to 60	Code 1		B	M	10/8/2018		10/8/2018			1	1	0.0276	0.0276	
1823001	92270	MB	P	3"	542	Less than or equal to 60	Code 1		B	S	10/9/2018		10/10/2018			283	2	0.2988	84.5604	
1823092	92069	DB	P	1 1/4"	494	Less than or equal to 60	Code 1		B	S	10/10/2018		10/10/2018			283	1	0.0089	2.5187	
1823093	92069	MB	P	2"	446	Less than or equal to 60	Code 1		B	M	10/10/2018		10/10/2018			1	1	0.2988	0.2988	
1823164	92110	DB	PC	3/4"	710	Less than or equal to 60	Code 1		B	M	10/10/2018		10/10/2018			1	1	0.0276	0.0276	
1825813	92270	MB	P	2"	542	Less than or equal to 60	Code 2		B	S	11/26/2018		11/27/2018			331	2	0.2988	98.9028	
1823283	91941	MB	PC	1 1/2"	710	Less than or equal to 60	Code 1		B	M	10/12/2018		10/12/2018			1	1	0.0612	0.0612	
1823318	92270	DB	P	1"	194	Less than or equal to 60	Code 1		B	M	10/12/2018		10/12/2018			1	1	0.0089	0.0089	
1823370	92270	MB	PC	1 1/2"	710	Less than or equal to 60	Code 1		B	M	10/13/2018		10/13/2018			1	1	0.0612	0.0612	
1823381	92116	MB	PC	1 1/2"	1111	Less than or equal to 60	Code 1		B	M	10/14/2018		10/14/2018			1	1	0.0612	0.0612	
1823433	91942	DB	PC	3/4"	806	Less than or equal to 60	Code 1		B	M	10/15/2018		10/15/2018			1	1	0.0276	0.0276	
1823529	92102	MB	PC	2"	806	Less than or equal to 60	Code 1		B	M	10/16/2018		10/16/2018			1	1	0.0612	0.0612	
1823664	92270	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1		B	M	10/17/2018		10/17/2018			1	1	0.0089	0.0089	
1826127	92270	DB	PC	3/4"	674	Less than or equal to 60	Code 2		B	S	12/1/2018		12/2/2018			336	2	0.0276	9.2736	
1823678	92102	MB	PC	1 1/2"	806	Less than or equal to 60	Code 1		B	M	10/17/2018		10/17/2018			1	1	0.0612	0.0612	

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Upgraded Leak Grade or Downgraded Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Re-Grade Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Number of Days to Repair	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1823780	92270	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1		B	M	10/18/2018		10/18/2018			1	1	0.0089	0.0089	
1823825	92270	MB	PC	1 1/2"	986	Less than or equal to 60	Code 1		B	M	10/19/2018		10/19/2018			1	1	0.0612	0.0612	
1824813	92270	DB	PC	3/4"	698	Less than or equal to 60	Code 1		B	M	10/22/2018		10/22/2018			1	1	0.0276	0.0276	
1824063	92270	DB	PC	3/4"	698	Less than or equal to 60	Code 1		B	S	10/23/2018		10/23/2018			296	1	0.0276	8.1696	
1824107	92037	DB	PC	3/4"	698	Less than or equal to 60	Code 1		B	M	10/23/2018		10/23/2018			1	1	0.0276	0.0276	
1826369	92081	DB	P	1/2" IPS	523	Less than or equal to 60	Code 2		B	S	12/5/2018		12/6/2018			340	2	0.0089	3.026	
1826436	92081	MB	P	2"	458	Less than or equal to 60	Code 2		B	S	12/7/2018		12/8/2018			342	2	0.2988	102.1896	
1826527	92131	MB	P	2"	458	Less than or equal to 60	Code 2		B	M	12/9/2018		12/10/2018			2	2	0.2988	0.5976	
1824113	92270	DB	PC	3/4"	614	Less than or equal to 60	Code 1		B	M	10/23/2018		10/23/2018			1	1	0.0276	0.0276	
1824114	92009	MB	P	2"	518	Less than or equal to 60	Code 1		B	M	10/23/2018		10/23/2018			1	1	0.2988	0.2988	
1826684		MB	P	3"		Less than or equal to 60	Code 2		B	S	12/11/2018		12/12/2018			346	2	0.2988	103.3848	
1826721	92056	MB/DB	Unknown			Less than or equal to 60	Code 2		B	M	12/12/2018					20		0.060	1.2	
1826722	92056	MB	P	1 1/4"	506	Less than or equal to 60	Code 2		B	M	12/12/2018					20		0.2988	5.976	
1824078	92861	DB	P	1/2" CTS	674	Less than or equal to 60	Code 1		B	M	10/23/2018		10/23/2018			1	1	0.0089	0.0089	
1826821	92027	MB	PC	2"	614	Less than or equal to 60	Code 2		B	S	12/13/2018		12/14/2018			348	2	0.0612	21.2976	
1824206	92056	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	10/24/2018		10/24/2018			1	1	0.0276	0.0276	
1826885	92028	MB	P	1 1/4"	506	Less than or equal to 60	Code 2		B	S	12/14/2018		12/15/2018			349	2	0.2988	104.2812	
1824262	92084	MB	PC	1 1/2"	746	Less than or equal to 60	Code 1		B	M	10/25/2018		10/25/2018			1	1	0.0612	0.0612	
1824268	92118	MB	PC	2"	938	Less than or equal to 60	Code 1		B	M	10/25/2018		10/25/2018			1	1	0.0612	0.0612	
1824284	92270	DB	PC	3/4"	662	Less than or equal to 60	Code 1		B	M	10/25/2018		10/25/2018			1	1	0.0276	0.0276	
1827166	92103	DB	P	1/2" CTS	554	Less than or equal to 60	Code 2		B	M	12/19/2018		12/20/2018			2	2	0.0089	0.0178	
1824320	92270	MB	PC	2"	662	Less than or equal to 60	Code 1		B	M	10/25/2018		10/25/2018			1	1	0.0612	0.0612	
1824322	92075	DB	P	1/2" CTS	602	Less than or equal to 60	Code 1		B	M	10/25/2018		10/25/2018			1	1	0.0089	0.0089	
1824418	92119	MB	PC	1 1/2"	650	Less than or equal to 60	Code 1		B	M	10/28/2018		10/28/2018			1	1	0.0612	0.0612	
1824494	92083	MB	PC	1 1/2"	794	Less than or equal to 60	Code 1		B	M	10/29/2018		10/29/2018			1	1	0.0612	0.0612	
1824592	92270	MB	P	2"	506	Less than or equal to 60	Code 1		B	S	10/30/2018		10/31/2018			304	2	0.2988	90.8352	
1824674	92054	MB	PC	2"	818	Less than or equal to 60	Code 1		B	M	10/31/2018		10/31/2018			1	1	0.0612	0.0612	
1802124	92154	DB	P	1/2" CTS	590	Less than or equal to 60	Code 2		B	M	1/25/2018		2/1/2018			8	8	0.0089	0.0712	
1824777	92270	DB	PC	3/4"	578	Less than or equal to 60	Code 1		B	M	11/2/2018		11/2/2018			1	1	0.0276	0.0276	
1820557	92069	DB	P	1/2" CTS		Less than or equal to 60	Code 2		B	M	9/10/2018		10/23/2018			44	44	0.0089	0.3916	
1824896	92270	MB	PC	2"	746	Less than or equal to 60	Code 1		B	M	11/5/2018		11/5/2018			1	1	0.0612	0.0612	
1824897	92270	DB	PC	3/4"	698	Less than or equal to 60	Code 1		B	M	11/5/2018		11/5/2018			1	1	0.0276	0.0276	
1824955	92054	MB	PC	1 1/2"	818	Less than or equal to 60	Code 1		B	M	11/6/2018		11/6/2018			1	1	0.0612	0.0612	
1826500	92064	DB	P	1"	554	Less than or equal to 60	Code 2		B	M	12/8/2018		12/11/2018			4	4	0.0089	0.0356	
1825328	92270	MB	PC	2"	770	Less than or equal to 60	Code 1		B	M	11/7/2018		11/7/2018			1	1	0.0612	0.0612	
1825041	92270	DB	PC	3/4"	758	Less than or equal to 60	Code 1		B	M	11/8/2018		11/8/2018			1	1	0.0276	0.0276	
1825141	92270	MB	P	2"	530	Less than or equal to 60	Code 1		B	M	11/9/2018		11/9/2018			1	1	0.2988	0.2988	
1825152	92270	DB	PC	3/4"	854	Less than or equal to 60	Code 1		B	M	11/10/2018		11/10/2018			1	1	0.0276	0.0276	
1825174	92270	DB	PC	3/4"	710	Less than or equal to 60	Code 1		B	M	11/10/2018		11/10/2018			1	1	0.0276	0.0276	
1825176	92270	MB	P	1 1/4"	536	Less than or equal to 60	Code 1		B	M	11/11/2018		11/11/2018			1	1	0.2988	0.2988	
1825194	92270	MB	PC	2"	794	Less than or equal to 60	Code 1		B	M	11/12/2018		11/12/2018			1	1	0.0612	0.0612	
1825267	92270	DB	PC	3/4"	722	Less than or equal to 60	Code 1		B	M	11/13/2018		11/13/2018			1	1	0.0276	0.0276	
1825287		DB	PC	3/4"		Less than or equal to 60	Code 1		B	M	11/13/2018		11/13/2018			1	1	0.0276	0.0276	
1825341	92270	MB	P	2"	506	Less than or equal to 60	Code 1		B	M	11/14/2018		11/14/2018			1	1	0.2988	0.2988	
1825350	92270	DB	P	2"		Less than or equal to 60	Code 1		B	M	11/14/2018		11/14/2018			1	1	0.0089	0.0089	
1825397	92270	MB	P	1 1/4"		Less than or equal to 60	Code 1		B	M	11/14/2018		11/14/2018			1	1	0.2988	0.2988	
1825355	92054	MB	PC	2"	710	Less than or equal to 60	Code 1		B	M	11/15/2018		11/15/2018			1	1	0.0612	0.0612	
1825430	92109	MB	PC	2"	1078	Less than or equal to 60	Code 1		B	M	11/15/2018		11/15/2018			1	1	0.0612	0.0612	
1825435	92270	DB	P	1 1/4"	458	Less than or equal to 60	Code 1		B	M	11/15/2018		11/15/2018			1	1	0.0089	0.0089	
1825482	92139	DB	P	1/2" CTS	602	Less than or equal to 60	Code 1		B	M	11/16/2018		11/16/2018			1	1	0.0089	0.0089	
1825591	91910	MB	PC	2"	1010	Less than or equal to 60	Code 1		B	M	11/19/2018		11/19/2018			1	1	0.0612	0.0612	
1825604	92109	DB	PC	3/4"	770	Less than or equal to 60	Code 1		B	M	11/19/2018		11/19/2018			1	1	0.0276	0.0276	
1825673	92270	MB	P	3"	398	Less than or equal to 60	Code 1		B	M	11/20/2018		11/20/2018			1	1	0.2988	0.2988	
1825617	92083	DB	PC	3/4"	614	Less than or equal to 60	Code 1		B	M	11/20/2018		11/20/2018			1	1	0.0276	0.0276	
1825663	92110	DB	PC	3/4"	626	Less than or equal to 60	Code 1		B	M	11/20/2018		11/20/2018			1	1	0.0276	0.0276	
1825739	92270	DB	PC	3/4"	782	Less than or equal to 60	Code 1		B	M	11/21/2018		11/21/2018			1	1	0.0276	0.0276	
1825744	91941	MB	PC	2"	698	Less than or equal to 60	Code 1		B	M	11/21/2018		11/21/2018			1	1	0.0612	0.0612	
1825749	92037	DB	P	1/2" CTS	578	Less than or equal to 60	Code 1		B	M	11/21/2018		11/21/2018			1	1	0.0089	0.0089	
1825755	92270	MB	P	3"	470	Less than or equal to 60	Code 1		B	M	11/22/2018		11/22/2018			1	1	0.2988	0.2988	
1825756	92270	MB	PC	2"	650	Less than or equal to 60	Code 1		B	M	11/22/2018		11/22/2018			1	1	0.0612	0.0612	
1825802	92270	DB	P	1/2" IPS	506	Less than or equal to 60	Code 1		B	M	11/23/2018		11/23/2018			1	1	0.0089	0.0089	
1825762	92154	DB	PC	3/4"	818	Less than or equal to 60	Code 1		B	M	11/23/2018		11/23/2018			1	1	0.0276	0.0276	
1825785	92064	MB	PC	2"	602	Less than or equal to 60	Code 1		B	M	11/24/2018		11/24/2018			1	1	0.0612	0.0612	
1825861	92075	DB	PC	1"	614	Less than or equal to 60	Code 1		B	M	11/26/2018		11/26/2018			1	1	0.0276	0.0276	
1825958	92270	MB	PC	1 1/2"	986	Less than or equal to 60	Code 1		B	M	11/27/2018		11/27/2018			1	1	0.0612	0.0612	
1825995	92270	DB	P	1/2" IPS	494	Less than or equal to 60	Code 1		B	S	11/28/2018		11/28/2018			332	1	0.0089	2.9548	
1826001	92270	MB	P	3"	494	Less than or equal to 60	Code 1		B	S	11/28/2018		11/29/2018			333	2	0.2988	99.5004	
1826040	92104	MB	PC	2"	794	Less than or equal to 60	Code 1		B	M	11/28/2018		11/28/2018			1	1	0.0612	0.0612	
1826023		MB	P	2"	506	Less than or equal to 60	Code 1		B	M	11/28/2018		11/28/2018			1	1	0.2988	0.2988	
1826021		DB	PC	3/4"	986	Less than or equal to 60	Code 1		B	M	11/28/2018		11/28/2018			1	1	0.0276	0.0276	
1811025		DB	PC	3/4"	638	Less than or equal to 60	Code 3		B	S	5/10/2018		6/11/2018			162	33	0.0276	4.4712	
1812585	93263	DB	PC	3/4"	638	Less than or equal to 60	Code 2		B	M	5/30/2018		7/2/2018			34	34	0.0276	0.9384	
1826119	92270	MB	PC	2"	686	Less than or equal to 60	Code 1		B	M	11/30/2018		11/30/2018			1	1	0.0612	0.0612	
1817379		DB	PC	3/4"	842	Less than or equal to 60	Code 2		B	M	7/30/2018		8/15/2018			17	17	0.0276	0.4692	
1826124	92270	MB	P	2"	521	Less than or equal to 60	Code 1		B	M	11/30/2018		11/30/2018			1	1	0.2988	0.2988	
1826138	92270	MB	P	2"	554	Less than or equal to 60	Code 1		B	M	12/1/2018		12/1/2018			1	1	0.2988	0.2988	
1826218	92102	MB	PC	1 1/2"	818	Less than or equal to 60	Code 1		B	M	12/3/2018		12/3/2018			1	1	0.0612	0.0612	
1826228	92083	MB	PC	2"	794	Less than or equal to 60	Code 1		B	S	12/3/2018		12/4/2018			338	2	0.0612	20.6856	
1826251	92054	DB	P	1/2" CTS	475	Less than or equal to 60	Code 1		B	M	12/3/2018		12/3/2018			1	1	0.0089	0.0089	
1826277	92084	MB	P	2"	422	Less than or equal to 60	Code 1		B	S	12/4/2018		12/5/2018			339	2	0.2988	101.2932	
1823850	92069	DB	PC	3/4"	674	Less than or equal to 60	Code 2		B	M	10/19/2018		11/15/2018			28	28	0.0276	0.7728	
1824157	92373	DB	PC	3/4"	722	Less than or equal to 60	Code 2		B	M	10/24/2018		11/12/2018			20	20	0.0276	0.552	
1826336	92115	MB	PC	2"	818	Less than or equal to 60	Code 1		B	M	12/4/2018		12/4/2018			1	1	0.0612	0.0612	
1826350	92083	DB	PC	3/4"	746	Less than or equal to 60	Code 1		B	M	12/4/2018		12/4/2018			1	1	0.0276	0.0276	
1826625	92103	MB	P	1 1/4"	515	Less than or equal to 60	Code 1		B	M	12/10/2018		12/10/2018			1	1	0.2988	0.2988	
1826660	92084	MB	P	2"	542	Less than or equal to 60	Code 1		B	S	12/11/2018		12/12/2018			346	2	0.2988	103.3848	
1826675	92056	DB	PC	3/4"	698	Less than or equal to 60	Code 1		B	M	12/11/2018		12/11/2018			1	1	0.0276	0.0276	
1826793	91941	DB	PC	3/4"	986	Less than or equal to 60	Code 1		B	M	12/12/2018		12/12/2018			1	1	0.0276	0.0276	
1826851	92122	DB	PC	3/4"	686	Less than or equal to 60	Code 1		B	M	12/12/2018		12/12/2018			1	1	0.0276	0.0276	
1826898	90221	DB	PC	3/4"	662	Less than or equal to 60	Code 2		B	M	12/14/2018		12/20/2018			7	7	0.0276	0.1932	
1826779	93023	MB	P	2"	410	Less than or equal to 60	Code 1		B	S	12/12/2018		12/13/2018			347	2	0.2988	103.6836	
1826944	92104	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1		B	M	12/14/2018		12/14/2018			1	1	0.0089	0.0089	
1826967	92154	MB	P	2"	421	Less than or equal to 60	Code 1		B	M	12/16/2018		12/16/2018			1	1	0.2988	0.2988	
1826997	91911	MB	PC	1 1/2"	806	Less than or equal to 60	Code 1		B	M	12/17/2018		12/17/2018			1	1	0.0612	0.0612	
1827174	92103	MB/DB	P	1 1/4"	485	Less than or equal to 60	Code 1		B	M	12/18/2018		12/18/2018			1	1	0.0089	0.0089	
1804658	91977	MB	PC	2"	710	Less than or equal to 60	Code 2		B	S	2/23/2018		4/10/2018			100	47	0.0612	6.12	
1827079		DB	PC	3/4"	494	Less than or equal to 60	Code 1		B	M	12/18/2018		12/18/2018			1	1	0.0276	0.0276	
1827119	93023	DB	PC	3/4"	746	Less than or equal to 60	Code 1		B	M	12/18/2018		12/18/2018			1	1	0.0276	0.0276	
1810461		MB	PC	1 1/2"	854	Less than or equal to 60	Code 2		B	M	5/3/2018		6/11/2018			40	40	0.0612	2.448	
1823620	92028	MB	PC	2"	614	Less than or equal to 60	Code 2		B	S	10/17/2018		11/13/2018			317	28	0.0612	19.4004	
1827184	92024	DB	PC	3/4"	590	Less than or equal to 60	Code 1		B	M	12/19/2018		12/19/2018			1	1	0.0276	0.0276	
1802421	92105	DB	PC	3/4"	1070	Less than or equal to 60	Code 2		B	M	1/29/2018		1/29/2018			1	1	0.0276	0.0276	
1827186		DB	PC	3/4"	866	Less than or equal to 60	Code 1		B	M	12/19/2018		12/19/2018			1	1	0.0276	0.0276	
1827261	92154	MB	P	2"	566	Less than or equal to 60	Code 1		B	M	12/20/2018		12/20/2018			1	1	0.2988	0.2988	
1827283	92106	MB	PC	1 1/2"	986	Less than or equal to 60	Code 1		B	M	12/21/2018		12/21/2018			1	1	0.0612	0.0612	
1809680	92407	DB	PC	3/4"	818	Less than or equal to 60	Code 2		B	M	4/25/2018		4/25/2018			1	1	0.0276	0.0276	
1827462		DB	PC	3/4"	794	Less than or equal to 60	Code 1		B	M	12/27/2018		12/27/2018			1	1	0.0276	0.0276	
1827508	92105	DB	PC	3/4"	854	Less than or equal to 60	Code 1		B	M	12/28/2018		12/28/2018			1	1	0.0276	0.0276	
1827509		DB	PC	3/4"		Less than or equal to 60	Code 1		B	M	12/28/2018		12/28/2018			1	1	0.0276	0.0276	
1827511	92105	MB	PC	1 1/2"	674	Less than or equal to 60	Code 1		B	M	12/28/2018		12/28/2018			1	1	0.0612	0.0612	

SDG&E, June 14, 2019

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 2019 June Report

Appendix 4; Rev. 03/29/19

Notes:
Definitions in Data Request R15-01-008 2018 June Report
If highlighted cells are filled in, the other cells will auto-populate

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 [$M_{X,A}$]	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 [$N_{X,L}$]	2016 Annual Leak Rate [$R_{X,1}$]	2017 Annual Leak Rate [$R_{X,2}$]	2018 Annual Leak Rate [$R_{X,3}$] $R_{X,3} = \frac{N_{X,L}}{M_{X,A} + (I \times M_{X,I})}$	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* [$N_{X,O}$]
Main/Vintage* Plastic	1,747	1,747	0	1	0	16	N/A	N/A	0.009	0.00916	-	47
Main/Plastic	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Main/Plastic	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Main/Plastic	2,849	237	2,612	5	534	1	0.0017	0.0019	0.000	0.00034	2	9
Main/Unprotected Steel	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Main/Unprotected Steel	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Main/Unprotected Steel	N/A	N/A	N/A	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Main/Vintage* Protected Steel**	455			1			N/A	N/A	-	-	-	N/A
Main/Protected Steel	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Main/Protected Steel	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Main/Protected Steel	3,571	1,076	2,495	5	426	18	0.030	0.006	0.006	0.00591	31	116
Service/Vintage* Plastic	1,348	1,348	0	1	0	16	N/A	N/A	0.01	0.01187	-	54
Service/Plastic	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Plastic	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Plastic	2,400	56	2,344	5	349	0	0.017	0.010	-	-	-	12
Service/Unprotected Steel	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Unprotected Steel	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Unprotected Steel	N/A	N/A	N/A	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Vintage* Protected Steel**	320			1			N/A	N/A	-	-	-	N/A
Service/Protected Steel	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Protected Steel	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Protected Steel	2,628	985	1,643	5	244	20	0.0820	0.0179	0.00907	0.01349	47	220
Service/Copper	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Copper	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Service/Copper	N/A	N/A	N/A	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	**11,448**	**5,449**	**9,094**	**N/A**	**1,552**	**71**				**N/A**	**80**	**458**

***Definitions for "vintage" materials:**

Vintage Plastic — Pipe installed before 1986

Vintage Protected Steel — Pipe Installed before 1950

** Total System Miles of Main & Service/ Vintage Protected Steel is included in the Total Miles of Main/Service Protected Steel due to the fact that there was no leakage associated with Vintage Protected steel material in 2018. the Total System Miles listed for Main & service/ Vintage Protected Steel is for informational purpose.

Estimated Emissions by Pipeline Facility/Material for Each Leakage Category

Leakage Category / Facility/Material	Emission Factor (Mscf/day/leak)	2018 Emissions from Leaks detected Prior to 2018 (Mscf)	2018 Emissions from Leaks Detected from 2018 Survey (Mscf)	2018 Emissions from O&M* Leaks Detected in 2018 (Mscf)	2018 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2018 Emissions from Distribution Pipelines (Mscf)
Main/Vintage* Plastic	0.2988	0	2,063	19	0	2,082
Main/Plastic	0.2988	N/A	N/A	N/A	N/A	N/A
Main/Plastic	0.2988	N/A	N/A	N/A	N/A	N/A
Main/Plastic	0.2988	0	199	5	195	399
Main/Unprotected Steel	0.1548	N/A	N/A	N/A	N/A	N/A
Main/Unprotected Steel	0.1548	N/A	N/A	N/A	N/A	N/A
Main/Unprotected Steel	0.1548	0	0	0	N/A	0
Main/Vintage* Protected Steel	0.0612	N/A	N/A	N/A	N/A	N/A
Main/Protected Steel	0.0612	N/A	N/A	N/A	N/A	N/A
Main/Protected Steel	0.0612	N/A	N/A	N/A	N/A	N/A
Main/Protected Steel	0.0612	0	159	11	683	853

Leakage Category / Facility/Material	Emission Factor (Mscf/day/leak)	2018 Emissions from Leaks detected Prior to 2018 (Mscf)	2018 Emissions from Leaks Detected from 2018 Survey (Mscf)	2018 Emissions from O&M* Leaks Detected in 2018 (Mscf)	2018 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2018 Emissions from Distribution Pipelines (Mscf)
Service/Vintage* Plastic	0.0089	0	25	1	0	25
Main/Unknown	0.2988	0	0	2	0	2
Service/Plastic	0.0089	N/A	N/A	N/A	N/A	N/A
Service/Plastic	0.0089	N/A	N/A	N/A	N/A	N/A
Service/Plastic	0.0089	0	1	0	0	1
Service/Unprotected Steel	0.0600	N/A	N/A	N/A	N/A	N/A
Service/Unprotected Steel	0.0600	N/A	N/A	N/A	N/A	N/A
Service/Unprotected Steel	0.0600	N/A	N/A	N/A	N/A	N/A
Service/Vintage* Protected Steel	0.0276	N/A	N/A	N/A	N/A	N/A
Service/Protected Steel	0.0276	N/A	N/A	N/A	N/A	N/A
Service/Protected Steel	0.0276	N/A	N/A	N/A	N/A	N/A
Service/Protected Steel	0.0276	0	89	10	475	574
Service/Copper	0.0226	N/A	N/A	N/A	N/A	N/A
Service/Copper	0.0226	N/A	N/A	N/A	N/A	N/A
Service/Copper	0.0226	N/A	N/A	N/A	N/A	N/A
Service/Unknown	0.0600	0	0	1	0	1
Total	**N/A**	**0**	**2,535**	**49**	**1,353**	**3,937**

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.

SDG&E, June 14, 2019

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 2019 June Report
Appendix 4; Rev. 03/29/19

This summary purposefully should exclude damages, blowdowns, component emissions and component leaks.

	Count of Leaks Carried over from Prior Year	Count of Leaks Discovered in the Year of Interest	Count of Leaks Repaired in the Year of Interest	Average Days to Repair Leaks	Count of Estimated Unsurveyed Leaks in the Year of Interest	Count of Remaining Known Leaks at final day of the Year of Interest (12/31/18)	Emissions from Leaks Carried over from Prior Year.	Emissions from Leaks Discovered in the Year of Interest.	Emissions from Estimated Unsurveyed Leaks in the Year of Interest	Total Emissions in the Year of Interest [Mscf of Natural Gas]	Explanatory Notes / Comments
Grade 1	0	419	419	1	N/A*	0	0	1329	N/A	N/A	
Grade 2	0	121	119	4	N/A*	2	0	1250	N/A	N/A	
Grade 3	0	5	5	8	N/A*	0	0	5	N/A	N/A	
Graded Leak Total	**0**	**545**	**543**	**N/A****	**N/A***	**2**	**0**	**2584**	**N/A***	**N/A**	
Above Ground Hazardous	0	0	0	N/A**	N/A*	0	0	0	N/A*	N/A	
Above Ground Non-Hazardous	0	0	0	N/A**	N/A*	0	0	0	N/A*	N/A	
Above Ground Non-Hazardous Minor	0	0	0	N/A**	N/A*	0	0	0	N/A*	N/A	
AG Total	0	0	0	N/A**	N/A*	0	0	0	N/A*	N/A	
Total of All Leaks	**0**	**545**	**543**	**N/A****	**N/A***	**2**	**0**	**2584**	**N/A***	**N/A**	
Main/Plastic	0	19	19	16	2	0	0	204	195	399	Column E - The duration of Grade 1 leaks is estimated based on company policy.
Main/Vintage* Plastic	0	72	71	2	0	1	0	2082		2082	
Main/Unprotected Steel	0	0	0	0	0	0	0	0	0	0	
Main/Protected Steel	0	134	134	2	31	0	0	170	683	853	
Main/Vintage* Protected Steel	0	0	0	0	0	0	0	0	0	0	
Main/Unknown	0	2	2	0	0	0	0	2	0	2	
Service/Plastic	0	11	11	13	0	0	0	1	0	1	
Service/Vintage* Plastic	0	63	63	2		0	0	25	0	25	
Service/Unprotected Steel	0	0	0	0	0	0	0	0	0	0	
Service/Protected Steel	0	240	240	2	47	0	0	99	475	574	
Service/Vintage* Protected Steel	0	0	0	0	0	0	0	0	0	0	
Service/Copper	0	0	0	0	0	0	0	0	0	0	
Service/Unknown	0	4	3	0	0	1	0	0	0	0	
Total	**0**	**545**	**543**	**N/A****	**80**	**6**	**0**	**2584**	**1,353**	**3,937**	

* Since the estimated number of Unknown Leaks occurs at various points in time during the leak survey cycle, estimation of the number of leaks by leak grade, and whether or not the leaks are Below Ground or Above Ground may be misleading using the suggested methodology. The wording in the column headers is also misleading since these numbers would be an estimation rather than a "Count". The estimated emissions in these categories can not be provided since they are dependent on an estimated number of leaks.
** Totals are not applicable in these columns.

SDG&E, June 14, 2019

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.

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Appendix 4; Rev. 03/29/19

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 Damage (3rd party dig-ins, natural disasters, etc.):

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1805148	92701	E	DB	PC	3/4"	770	Less than or equal to 60	Code 1	B	3/1/2018	3/1/2018	1		36.2	
1805436	92701	E	DB	P	1/2" IPS	434	Less than or equal to 60	Code 1	B	3/5/2018	3/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1805744	92701	E	DB	P	1"	230	Less than or equal to 60	Code 1	B	3/8/2018	3/8/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1805797	92701	E	DB	P	1/2" IPS	254	Less than or equal to 60	Code 1	B	3/8/2018	3/8/2018	1		9.4	
1805931	92701	E	DB	PC	3/4"	770	Less than or equal to 60	Code 1	B	3/10/2018	3/10/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809994	92571	N	MB	P	1 1/4"	518	Less than or equal to 60	Code 1	B	4/29/2018	4/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810034	92571	E	DB	P	1"	445	Less than or equal to 60	Code 1	B	4/30/2018	4/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810166	92571	E	DB	PC	3/4"	614	Less than or equal to 60	Code 1	B	5/1/2018	5/1/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810391	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/3/2018	5/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810392	92571	E	MB	P	2"	194	Less than or equal to 60	Code 1	B	5/3/2018	5/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810599	92571	E	DB	P	1"	518	Less than or equal to 60	Code 1	B	5/7/2018	5/7/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810902	92571	E	DB	P	1/2" IPS	398	Less than or equal to 60	Code 1	B	5/9/2018	5/9/2018	1		7.5	
1811859	92571	E	DB	P	1/2" CTS	326	Less than or equal to 60	Code 1	B	5/9/2018	5/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810970	92571	E	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1	B	5/10/2018	5/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811198	92571	E	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1	B	5/14/2018	5/14/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811274	92571	E	DB	P	1"	7	Less than or equal to 60	Code 1	B	5/14/2018	5/14/2018	1		13.3	
1811380	92571	E	MB	P	2"	17	Less than or equal to 60	Code 1	B	5/15/2018	5/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811407	92571	E	DB	P	1/2" CTS	374	Less than or equal to 60	Code 1	B	5/16/2018	5/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811460	92571	E	DB	P	1/2" IPS	494	Less than or equal to 60	Code 1	B	5/16/2018	5/16/2018	1		8.3	
1811480	92571	E	DB	P	1/2" IPS	453	Less than or equal to 60	Code 1	B	5/16/2018	5/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811609	92571	E	MB	P	4"	14	Less than or equal to 60	Code 1	B	5/17/2018	5/17/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811753	92571	E	DB	P	1"	230	Less than or equal to 60	Code 1	B	5/19/2018	5/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811763	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/20/2018	5/20/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811775	92571	E	DB	P	1/2" IPS	480	Less than or equal to 60	Code 1	B	5/21/2018	5/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811897	92571	N	DB	P	1/2" CTS	482	Less than or equal to 60	Code 1	B	5/22/2018	5/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811966	92571	E	DB	P	1"	458	Less than or equal to 60	Code 1	B	5/22/2018	5/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812059	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/23/2018	5/23/2018	1		2.0	
1812128	92571	E	MB	PC	2"	674	Less than or equal to 60	Code 1	B	5/23/2018	5/23/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812150	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/23/2018	5/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812550	92571	E	MB	P	2"	374	Less than or equal to 60	Code 1	B	5/29/2018	5/29/2018	1		3.4	
1812553	92571	E	DB	P	1 1/4"	410	Less than or equal to 60	Code 1	B	5/29/2018	5/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812762	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/31/2018	5/31/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812772	92571	E	DB	P	1/2" IPS	218	Less than or equal to 60	Code 1	B	5/31/2018	5/31/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812788	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/1/2018	6/1/2018	1		10.1	
1812971	92571	E	MB	P	1 1/4"	494	Less than or equal to 60	Code 1	B	6/4/2018	6/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812972	92571	E	DB	P	1/2" CTS	434	Less than or equal to 60	Code 1	B	6/4/2018	6/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813079	92571	E	DB	P	1"	104	Less than or equal to 60	Code 1	B	6/5/2018	6/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813101	92571	E	DB	P	1/2" CTS	446	Less than or equal to 60	Code 1	B	6/5/2018	6/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813190	92571	E	DB	P	1/2" CTS	314	Less than or equal to 60	Code 1	B	6/6/2018	6/6/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813208	92571	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	6/6/2018	6/6/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813374	92571	E	DB	P	1"	26	Less than or equal to 60	Code 1	B	6/7/2018	6/7/2018	1		46.3	
1813419		E	DB	P	2"		Less than or equal to 60	Code 1	B	6/9/2018	6/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813503	92571	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/11/2018	6/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813525	92571	E	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1	B	6/11/2018	6/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813863	92571	E	DB	P	1/2" IPS	326	Less than or equal to 60	Code 1	B	6/15/2018	6/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813880	92571	E	MB	P	1 1/4"	494	Less than or equal to 60	Code 1	B	6/15/2018	6/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813931	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/15/2018	6/15/2018	1		5.0	
1814031	92571	E	DB	P	1/2" CTS	434	Less than or equal to 60	Code 1	B	6/16/2018	6/16/2018	1		3.0	
1814105	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/19/2018	6/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814142	92571	N	DB	PC	3/4"	938	Less than or equal to 60	Code 1	B	6/19/2018	6/19/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814148	92571	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	6/19/2018	6/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814318	92571	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/21/2018	6/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814335	92571	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/21/2018	6/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814434	92571	E	MB	P	1 1/4"	494	Less than or equal to 60	Code 1	B	6/22/2018	6/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814470	92571	E	DB	P	1"	101	Less than or equal to 60	Code 1	B	6/23/2018	6/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814478	92571	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/23/2018	6/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814592	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/25/2018	6/25/2018	1		2.2	
1814720	92571	E	MB	P	3"	170	Less than or equal to 60	Code 1	B	6/26/2018	6/26/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814748	92571	E	DB	P	1/2" CTS	566	Less than or equal to 60	Code 1	B	6/26/2018	6/26/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814803	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/27/2018	6/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814967	92571	E	DB	P	1"	386	Less than or equal to 60	Code 1	B	6/28/2018	6/28/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815013	92571	E	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1	B	6/28/2018	6/28/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815037	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/29/2018	6/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815138	92571	E	DB	P	1/2" IPS	63	Less than or equal to 60	Code 1	B	6/30/2018	6/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815517		E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/6/2018	7/6/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825198	91901	N	MB	P	2"	422	Less than or equal to 60	Code 1	B	11/12/2018	11/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825666		E	DB	P	1"		Less than or equal to 60	Code 1	B	11/20/2018	11/20/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826997		E	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	12/17/2018	12/17/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806822	91913	E	DB	P	1"	26	Less than or equal to 60	Code 1	B	3/22/2018	3/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821630	91913	N	DB	P	1/2" CTS	386	Less than or equal to 60	Code 1	B	9/21/2018	9/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826249	91913	E	MB	P	2"		Less than or equal to 60	Code 1	B	12/3/2018	12/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802405	91914	E	MB	P	2"	230	Less than or equal to 60	Code 1	B	1/29/2018	1/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820105	91915	E	DB	P	1"	16	Less than or equal to 60	Code 1	B	9/4/2018	9/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821187	91915	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/17/2018	9/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1804721	91950	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/23/2018	2/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810618	91950	E	MB	P	2"	314	Less than or equal to 60	Code 1	B	5/7/2018	5/7/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811477	91950	E	DB	P	1/2" CTS	326	Less than or equal to 60	Code 1	B	5/16/2018	5/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820028	91950	E	DB	PC	3/4"	878	Less than or equal to 60	Code 1	B	8/31/2018	8/31/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825812	91950	E	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1	B	11/24/2018	11/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822114	91977	E	DB	PC	3/4"	842	Less than or equal to 60	Code 1	B	9/27/2018	9/27/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825817	92007	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/26/2018	11/26/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1804849	92008	E	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1	B	2/26/2018	2/26/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815302	92008	E	DB	P	1/2" IPS	374	Less than or equal to 60	Code 1	B	7/3/2018	7/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815997	92008	E	DB	P	1/2" IPS	458	Less than or equal to 60	Code 1	B	7/12/2018	7/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823995	92008	E	MB	P	3"	134	Less than or equal to 60	Code 1	B	10/22/2018	10/22/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825653	92008	E	DB	P	1"	9	Less than or equal to 60	Code 1	B	11/20/2018	11/20/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808564	92009	E	DB	P	1"	14	Less than or equal to 60	Code 1	B	4/13/2018	4/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826544	92009	N	DB	P	1/2" IPS	506	Less than or equal to 60	Code 1	B	12/8/2018	12/8/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819337	92014	E	DB	P	1 1/4"	100	Less than or equal to 60	Code 1	B	8/23/2018	8/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820709	92014	E	MB	PC	2"	866	Less than or equal to 60	Code 1	B	9/10/2018	9/10/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824812	92014	N	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/2/2018	11/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801155	92019	E	DB	P	1/2" IPS	494	Less than or equal to 60	Code 1	B	1/14/2018	1/14/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801251	92019	E	DB	P	1/2" IPS	194	Less than or equal to 60	Code 1	B	1/16/2018	1/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801357	92019	N	MB	P	1 1/4"	514	Less than or equal to 60	Code 1	B	1/16/2018	1/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801374	92019	E	DB	P	1/2" CTS	506	Less than or equal to 60	Code 1	B	1/17/2018	1/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801402	92019	E	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1	B	1/17/2018	1/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801610	92019	E	DB	P	1/2" CTS	362	Less than or equal to 60	Code 1	B	1/19/2018	1/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801620	92019	N	DB	P	1/2" CTS	458	Less than or equal to 60	Code 1	B	1/19/2018	1/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1803059	92019	E	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1	B	2/5/2018	2/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1803423	92024	E	MB	P	2"	43	Less than or equal to 60	Code 1	B	2/8/2018	2/8/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1804224	92024	E	DB	P	1"	362	Less than or equal to 60	Code 1	B	2/19/2018	2/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806418	92024	E	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1	B	3/16/2018	3/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811242	92024	E	DB	P	1/2" IPS	542	Less than or equal to 60	Code 1	B	5/14/2018	5/14/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812842	92024	E	DB	P	1/2" IPS	506	Less than or equal to 60	Code 1	B	6/1/2018	6/1/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824495	92024	E	DB	P	1"	218	Less than or equal to 60	Code 1	B	10/29/2018	10/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1827496	92024	E	DB	P	1/2" IPS	31	Less than or equal to 60	Code 1	B	12/28/2018	12/28/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821382	92025	E	DB	P	2"	350	Less than or equal to 60	Code 1	B	9/19/2018	9/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818670	92026	E	DB	P	1/2" CTS	506	Less than or equal to 60	Code 1	B	8/16/2018	8/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820275	92026	N	MB	P	3"	482	Less than or equal to 60	Code 1	B	9/5/2018	9/5/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1813336	92028	E	DB	P	1"	101	Less than or equal to 60	Code 1	B	6/7/2018	6/7/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1800271	92037	E	DB	P	1"		Less than or equal to 60	Code 1	B	1/3/2018	1/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807249	92037	E	DB	P	1/2" CTS	242	Less than or equal to 60	Code 1	B	3/28/2018	3/28/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815812	92037	E	DB	P	1"	90	Less than or equal to 60	Code 1	B	7/11/2018	7/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819550	92037	E	DB	P	1/2" CTS	506	Less than or equal to 60	Code 1	B	8/27/2018	8/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820020	92037	E	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1	B	8/31/2018	8/31/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821515	92037	E	DB	P	1/2" IPS	242	Less than or equal to 60	Code 1	B	9/20/2018	9/20/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1800120	92054	E	DB	P	1"	32	Less than or equal to 60	Code 1	B	1/2/2018	1/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1803215	92054	E	DB	P	1/2" CTS	194	Less than or equal to 60	Code 1	B	2/6/2018	2/6/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819359	92054	E	DB	PC	3/4"	722	Less than or equal to 60	Code 1	B	8/24/2018	8/24/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811596	92056	E	DB	P	1"	422	Less than or equal to 60	Code 1	B	5/17/2018	5/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815071	92056	E	DB	P	1"	11	Less than or equal to 60	Code 1	B	6/29/2018	6/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819399	92056	E	DB	P	1/2" IPS	506	Less than or equal to 60	Code 1	B	8/25/2018	8/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823606	92056	E	DB	P	2"	146	Less than or equal to 60	Code 1	B	10/17/2018	10/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825465	92057	N	DB	P	1/2" IPS	506	Less than or equal to 60	Code 2	B	11/16/2018	11/27/2018	12	0.0089	0.1068	
1808079	92064	E	DB	P	1"	350	Less than or equal to 60	Code 1	B	4/9/2018	4/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818947	92064	E	DB	P	1/2" CTS	398	Less than or equal to 60	Code 1	B	8/21/2018	8/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819460	92069	E	DB	P	1/2" IPS	554	Less than or equal to 60	Code 1	B	8/27/2018	8/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823464	92069	E	DB	PC	2"	818	Less than or equal to 60	Code 1	B	10/15/2018	10/15/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821258	92071	E	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1	B	9/18/2018	9/18/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801740	92075	E	DB	PC	3/4"	830	Less than or equal to 60	Code 1	B	1/22/2018	1/22/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809677	92078	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/25/2018	4/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816460	92078	E	MB	P	2"	21	Less than or equal to 60	Code 1	B	6/13/2018	6/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819782	92078	E	DB	P	2"		Less than or equal to 60	Code 1	B	8/29/2018	8/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825938	92084	N	DB	P	1/2" IPS	494	Less than or equal to 60	Code 1	B	11/27/2018	11/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826158	92084	N	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1	B	12/1/2018	12/1/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812857	92101	E	DB	P	1"	18	Less than or equal to 60	Code 1	B	6/2/2018	6/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824900	92101	E	DB	P	1/2" CTS	506	Less than or equal to 60	Code 1	B	11/5/2018	11/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1827233	92101	E	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1	B	12/20/2018	12/20/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824486	92102	E	MB	PC	1"	926	Less than or equal to 60	Code 1	B	10/29/2018	10/29/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801337	92103	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	1/16/2018	1/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1803559	92103	E	DB	PC	1 1/4"	698	Less than or equal to 60	Code 1	B	2/9/2018	2/9/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806933	92103	N	MB	P	2"	479	Less than or equal to 60	Code 1	B	3/24/2018	3/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808113	92103	E	DB	P	1/2" IPS	542	Less than or equal to 60	Code 1	B	4/9/2018	4/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817909	92103	E	DB	P	1/2" CTS	442	Less than or equal to 60	Code 1	B	8/7/2018	8/7/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1803511	92104	E	DB	P	1"	542	Less than or equal to 60	Code 1	B	2/9/2018	2/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809360	92105	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/23/2018	4/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818134	92105	E	MB	P	2"	206	Less than or equal to 60	Code 1	B	8/9/2018	8/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801472	92106	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	1/16/2018	1/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808349	92109	E	DB	P	1/2" CTS	254	Less than or equal to 60	Code 1	B	4/11/2018	4/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824286	92109	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/25/2018	10/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812523	92113	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/29/2018	5/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806069	92115	E	DB	P	1"		Less than or equal to 60	Code 1	B	3/12/2018	3/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806169	92115	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/13/2018	3/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816831	92116	E	DB	P	1/2" CTS	362	Less than or equal to 60	Code 1	B	7/24/2018	7/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801450	92119	N	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1	B	1/17/2018	1/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808363	92119	E	MB	PC	2"	722	Less than or equal to 60	Code 1	B	4/11/2018	4/11/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802838	92121	E	DB	P	1 1/4"	506	Less than or equal to 60	Code 1	B	2/1/2018	2/1/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1804236	92121	E	DB	P	2"		Less than or equal to 60	Code 1	B	2/19/2018	2/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811679	92122	E	DB	PC	3/4"	590	Less than or equal to 60	Code 1	B	5/18/2018	5/18/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820906	92124	E	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1	B	9/12/2018	9/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810440	92127	E	MB	P	4"	254	Less than or equal to 60	Code 1	B	5/3/2018	5/3/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812328	92127	E	DB	P	1"	26	Less than or equal to 60	Code 1	B	5/25/2018	5/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812839	92127	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	6/1/2018	6/1/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1813108	92127	E	DB	P	1/2" IPS	63	Less than or equal to 60	Code 1	B	6/5/2018	6/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814802	92127	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/27/2018	6/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820774	92127	E	MB	P	2"	73	Less than or equal to 60	Code 1	B	9/12/2018	9/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809140	92128	N	DB	P	1/2" CTS	386	Less than or equal to 60	Code 1	B	4/19/2018	4/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817358	92128	E	MB	P	2"	326	Less than or equal to 60	Code 1	B	7/30/2018	7/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821663	92128	N	DB	P	1 1/4"	494	Less than or equal to 60	Code 1	B	9/22/2018	9/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801679	92129	E	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1	B	1/21/2018	1/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806715	92129	N	DB	P	1/2" IPS	338	Less than or equal to 60	Code 1	B	3/20/2018	3/20/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821521	92129	N	DB	P	1 1/4"	470	Less than or equal to 60	Code 1	B	9/20/2018	9/20/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801105	92130	E	DB	P	1/2" IPS	410	Less than or equal to 60	Code 1	B	1/12/2018	1/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812129	92130	E	DB	P	1"	218	Less than or equal to 60	Code 1	B	5/23/2018	5/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820609	92130	E	DB	P	1"	27	Less than or equal to 60	Code 1	B	9/11/2018	9/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822443	92130	E	DB	P	1"	18	Less than or equal to 60	Code 1	B	10/1/2018	10/1/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822554	92130	E	MB	P	2"	48	Less than or equal to 60	Code 1	B	10/3/2018	10/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825800	92130	N	MB	P	2"	410	Less than or equal to 60	Code 1	B	11/24/2018	11/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816064	92131	E	MB	P	1 1/4"	506	Less than or equal to 60	Code 1	B	7/13/2018	7/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807472	92139	N	DB	P	1/2" IPS	410	Less than or equal to 60	Code 1	B	3/30/2018	3/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1810597	92139	E	MB	P	2"	11	Less than or equal to 60	Code 1	B	5/7/2018	5/7/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816288	92154	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/17/2018	7/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824786	92154	E	DB	P	2"	170	Less than or equal to 60	Code 1	B	11/2/2018	11/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815229	92264	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/2/2018	7/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815427	92264	N	MB	P	2"	516	Less than or equal to 60	Code 1	B	7/2/2018	7/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815430	92264	E	MB	P	2"		Less than or equal to 60	Code 1	B	7/5/2018	7/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815437	92264	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/5/2018	7/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815636	92264	E	DB	P	1"	17	Less than or equal to 60	Code 1	B	7/9/2018	7/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815688	92264	E	DB	P	1/2" CTS	531	Less than or equal to 60	Code 1	B	7/10/2018	7/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815732	92264	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/10/2018	7/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815744	92264	E	MB	P	2"		Less than or equal to 60	Code 1	B	7/10/2018	7/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815756	92264	E	DB	PC	1 1/2"	542	Less than or equal to 60	Code 1	B	7/10/2018	7/10/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815762	92264	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/10/2018	7/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815795	92264	E	MB	P	3"	554	Less than or equal to 60	Code 1	B	7/9/2018	7/9/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816001	92264	E	MB	P	2"	31	Less than or equal to 60	Code 1	B	6/19/2018	6/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816069	92264	N	DB	P	1/2" CTS	434	Less than or equal to 60	Code 1	B	7/13/2018	7/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816078	92264	E	DB	P	1"	18	Less than or equal to 60	Code 1	B	7/13/2018	7/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816186	92264	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	7/16/2018	7/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816192	92264	E	DB	P	1/2" CTS	458	Less than or equal to 60	Code 1	B	7/16/2018	7/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816193	92264	E	DB	PC	3/4"	842	Less than or equal to 60	Code 1	B	7/16/2018	7/16/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816286	92264	E	MB	P	3"	206	Less than or equal to 60	Code 1	B	7/17/2018	7/17/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816297	92264	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/17/2018	7/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816384	92264	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/18/2018	7/18/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816401	92264	E	MB	P	3"		Less than or equal to 60	Code 1	B	7/18/2018	7/18/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816664	92264	E	DB	P	1"	146	Less than or equal to 60	Code 1	B	7/21/2018	7/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816870	92264	E	MB	P	2"	506	Less than or equal to 60	Code 1	B	7/24/2018	7/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816967	92264	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/25/2018	7/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1816985	92264	N	DB	P	1/2" IPS	542	Less than or equal to 60	Code 1	B	7/25/2018	7/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817318	92264	E	MB	P	2"	170	Less than or equal to 60	Code 1	B	7/30/2018	7/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817332	92264	E	DB	PC	3/4"	818	Less than or equal to 60	Code 1	B	7/30/2018	7/30/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817524	92264	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	8/1/2018	8/1/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817526	92264	N	DB	P	1/2" IPS	338	Less than or equal to 60	Code 1	B	8/1/2018	8/1/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817736	92270	E	DB	P	1/2" CTS	566	Less than or equal to 60	Code 1	B	8/3/2018	8/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817908	92270	E	DB	P	1/2" CTS	158	Less than or equal to 60	Code 1	B	8/7/2018	8/7/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817942	92270	E	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1	B	8/7/2018	8/7/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817998	92270	E	DB	P	1/2" IPS	470	Less than or equal to 60	Code 1	B	8/8/2018	8/8/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818073	92270	E	DB	P	1"	14	Less than or equal to 60	Code 1	B	6/27/2018	6/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818075	92270	E	DB	P	1/2" IPS	494	Less than or equal to 60	Code 1	B	8/9/2018	8/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818136	92270	E	DB	P	1"		Less than or equal to 60	Code 1	B	8/9/2018	8/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818170	92270	E	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1	B	8/10/2018	8/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818206	92270	E	MB	P	2"	430	Less than or equal to 60	Code 1	B	8/10/2018	8/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818216	92270	E	MB	P	2"	16	Less than or equal to 60	Code 1	B	8/10/2018	8/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818217	92270	E	DB	P	1"		Less than or equal to 60	Code 1	B	8/10/2018	8/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818333	92270	E	MB	P	2"	422	Less than or equal to 60	Code 1	B	8/13/2018	8/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818404	92270	N	DB	P	1/2" CTS	506	Less than or equal to 60	Code 1	B	8/14/2018	8/14/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818422	92270	E	DB	P	1"	26	Less than or equal to 60	Code 1	B	8/14/2018	8/14/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818433	92270	E	DB	P	1/2" IPS	350	Less than or equal to 60	Code 1	B	8/14/2018	8/14/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818519	92270	E	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1	B	8/15/2018	8/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818530	92270	E	DB	P	1"	15	Less than or equal to 60	Code 1	B	8/15/2018	8/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1818601	92270	E	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1	B	8/15/2018	8/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818676	92270	E	DB	P	1"	242	Less than or equal to 60	Code 2	B	8/16/2018	10/3/2018	49	0.0089	0.4361	
1818677	92270	E	DB	P	1/2" CTS	506	Less than or equal to 60	Code 1	B	8/16/2018	8/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818809	92270	E	DB	PC	3/4"	566	Less than or equal to 60	Code 1	B	8/19/2018	8/19/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818976	92270	E	DB	P	1/2" CTS	254	Less than or equal to 60	Code 1	B	8/21/2018	8/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819039	92270	E	MB	P	2"	398	Less than or equal to 60	Code 1	B	8/22/2018	8/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819040	92270	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/22/2018	8/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819130	92270	E	DB	P	1"	15	Less than or equal to 60	Code 1	B	8/22/2018	8/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819240	92270	E	DB	P	1/2" CTS	386	Less than or equal to 60	Code 1	B	8/23/2018	8/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819269	92270	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	8/23/2018	8/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819394	92270	E	DB	P	1"	71	Less than or equal to 60	Code 1	B	8/25/2018	8/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819691	92270	E	MB	P	2"	134	Less than or equal to 60	Code 1	B	8/28/2018	8/28/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819776	92270	E	DB	PC	3/4"	866	Less than or equal to 60	Code 1	B	8/29/2018	8/29/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819785	92270	E	DB	P	1/2" CTS	386	Less than or equal to 60	Code 1	B	8/29/2018	8/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819825	92270	E	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1	B	8/30/2018	8/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819849	92270	E	DB	PC	3/4"	866	Less than or equal to 60	Code 1	B	8/30/2018	8/30/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819880	92270	E	DB	P	1"		Less than or equal to 60	Code 1	B	8/30/2018	8/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820119	92270	E	DB	P	1/2" CTS	434	Less than or equal to 60	Code 1	B	9/4/2018	9/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820131	92270	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/4/2018	9/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820239	92270	E	DB	P	1/2" CTS	446	Less than or equal to 60	Code 1	B	9/5/2018	9/5/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820335	92270	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/6/2018	9/6/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820436	92270	N	DB	PC	3/4"	650	Less than or equal to 60	Code 1	B	9/7/2018	9/7/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820573	92270	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/10/2018	9/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820685	92270	E	DB	P	1/2" CTS	422	Less than or equal to 60	Code 1	B	9/11/2018	9/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820689	92270	N	MB	P	3"	482	Less than or equal to 60	Code 1	B	9/11/2018	9/11/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820711	92270	E	DB	P	1"	230	Less than or equal to 60	Code 1	B	9/12/2018	9/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820730	92270	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	9/12/2018	9/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820840	92270	E	DB	P	1 1/4"	566	Less than or equal to 60	Code 1	B	9/13/2018	9/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821026	92270	E	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1	B	9/14/2018	9/14/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821034	92270	E	DB	PC	3/4"	866	Less than or equal to 60	Code 1	B	9/15/2018	9/15/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821057	92270	E	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1	B	9/14/2018	9/14/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821100	92270	E	MB	P	6"		Less than or equal to 60	Code 1	B	9/17/2018	9/17/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821115	92270	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/17/2018	9/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821181	92270	E	MB	PC	4"	662	Less than or equal to 60	Code 1	B	9/17/2018	9/17/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821231	92270	E	DB	P	1/2" CTS	434	Less than or equal to 60	Code 1	B	9/17/2018	9/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821539	92270	N	DB	P	1/2" IPS	458	Less than or equal to 60	Code 1	B	9/19/2018	9/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821560	92270	E	DB	PC	3/4"	1092	Less than or equal to 60	Code 1	B	9/20/2018	9/20/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821582	92270	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	9/21/2018	9/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821613	92270	N	DB	P	1 1/4"	470	Less than or equal to 60	Code 1	B	9/21/2018	9/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821758	92270	E	DB	P	1"	12	Less than or equal to 60	Code 1	B	9/24/2018	9/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821783	92270	E	DB	PC	3/4"	722	Less than or equal to 60	Code 1	B	9/24/2018	9/24/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821953	92270	E	MB	P	2"		Less than or equal to 60	Code 1	B	9/25/2018	9/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822037	92270	E	DB	P	1/2" IPS	602	Less than or equal to 60	Code 1	B	9/26/2018	9/26/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822077	92270	E	DB	PC	1 1/4"	842	Less than or equal to 60	Code 1	B	9/26/2018	9/26/2018	1		63.3	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822210	92270	E	DB	P	1/2" CTS	578	Less than or equal to 60	Code 1	B	9/27/2018	9/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822345	92270	E	MB	P	2"	518	Less than or equal to 60	Code 1	B	9/27/2018	9/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822548	92270	N	MB	P	3"	446	Less than or equal to 60	Code 2	B	10/3/2018	11/14/2018	43	0.2988	12.8484	
1822577	92270	E	DB	P	1"	362	Less than or equal to 60	Code 1	B	10/3/2018	10/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822579	92270	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/3/2018	10/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822629	92270	E	DB	P	1/2" CTS	321	Less than or equal to 60	Code 1	B	10/3/2018	10/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822653	92270	E	DB	P	1"	182	Less than or equal to 60	Code 1	B	10/4/2018	10/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822673	92270	N	DB	UC	3/4"	153	Less than or equal to 60	Code 1	B	10/4/2018	10/4/2018	1		19.5	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822679	92270	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	10/4/2018	10/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822702	92270	E	DB	P	2"	386	Less than or equal to 60	Code 1	B	10/4/2018	10/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822716	92270	E	DB	P	1/2" CTS	278	Less than or equal to 60	Code 1	B	9/18/2018	9/18/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822900	92270	E	DB	P	1"		Less than or equal to 60	Code 1	B	10/8/2018	10/8/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822933	92270	E	DB	P	1"	146	Less than or equal to 60	Code 1	B	10/8/2018	10/8/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823131	92270	E	DB	P	1/2" CTS	566	Less than or equal to 60	Code 1	B	10/4/2018	10/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823242	92270	E	DB	P	1 1/4"	410	Less than or equal to 60	Code 1	B	10/11/2018	10/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823247	92270	E	DB	P	1/2" IPS	554	Less than or equal to 60	Code 1	B	10/11/2018	10/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823313	92270	E	DB	P	1/2" IPS	542	Less than or equal to 60	Code 1	B	9/11/2018	9/11/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823422	92270	E	DB	P	2"	194	Less than or equal to 60	Code 1	B	10/15/2018	10/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823455	92270	E	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1	B	10/15/2018	10/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823463	92270	E	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1	B	10/15/2018	10/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823494	92270	E	MB	P	2"	338	Less than or equal to 60	Code 1	B	10/16/2018	10/16/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823637	92270	E	DB	P	1/2" CTS	422	Less than or equal to 60	Code 1	B	10/17/2018	10/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823684	92270	N	DB	P	1/2" CTS	518	Less than or equal to 60	Code 1	B	10/17/2018	10/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823686	92270	E	DB	UC	1"	502	Less than or equal to 60	Code 1	B	10/16/2018	10/16/2018	1		37.4	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823782	92270	E	DB	P	1/2" IPS	482	Less than or equal to 60	Code 1	B	10/18/2018	10/18/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823854	92270	E	MB	P	2"		Less than or equal to 60	Code 1	B	10/19/2018	10/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823869	92270	E	MB	P	2"	230	Less than or equal to 60	Code 1	B	10/19/2018	10/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823873	92270	N	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1	B	10/19/2018	10/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823890	92270	E	DB	P	1/2" CTS	480	Less than or equal to 60	Code 1	B	10/21/2018	10/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823895	92270	N	DB	P	1/2" IPS	194	Less than or equal to 60	Code 1	B	10/21/2018	10/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823967	92270	E	DB	P	1/2" CTS	542	Less than or equal to 60	Code 1	B	10/22/2018	10/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823985	92270	E	DB	P	1/2" IPS	518	Less than or equal to 60	Code 1	B	10/22/2018	10/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824094	92270	E	DB	P	1"	9	Less than or equal to 60	Code 1	B	10/23/2018	10/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824192	92270	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/24/2018	10/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824200	92270	E	DB	P	1/2" CTS	518	Less than or equal to 60	Code 1	B	10/24/2018	10/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824237	92270	E	DB	P	1"	18	Less than or equal to 60	Code 1	B	10/25/2018	10/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824291	92270	E	DB	P	1/2" CTS	566	Less than or equal to 60	Code 1	B	10/25/2018	10/25/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824319	92270	E	DB	P	1"	410	Less than or equal to 60	Code 1	B	10/26/2018	10/26/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824513	92270	E	DB	P	1"	35	Less than or equal to 60	Code 1	B	10/29/2018	10/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824619	92270	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	10/31/2018	10/31/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824703	92270	E	MB	P	3"		Less than or equal to 60	Code 1	B	11/1/2018	11/1/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824729	92270	E	DB	P	1/2" IPS	578	Less than or equal to 60	Code 1	B	11/1/2018	11/1/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824768	92270	E	DB	P	1"	410	Less than or equal to 60	Code 1	B	11/2/2018	11/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824788	92270	E	DB	P	1/2" IPS	434	Less than or equal to 60	Code 1	B	11/2/2018	11/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824805	92270	E	DB	PC	3/4"	890	Less than or equal to 60	Code 1	B	11/2/2018	11/2/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824829	92270	E	DB	P	1/2" CTS	182	Less than or equal to 60	Code 1	B	11/3/2018	11/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824960	92270	N	DB	P	1/2" CTS	410	Less than or equal to 60	Code 1	B	11/6/2018	11/6/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825012	92270	E	MB	P	3"	218	Less than or equal to 60	Code 1	B	11/7/2018	11/7/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825037	92270	E	DB	P	1/2" CTS	566	Less than or equal to 60	Code 1	B	11/7/2018	11/7/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825075	92270	E	DB	P	1/2" CTS	398	Less than or equal to 60	Code 1	B	11/8/2018	11/8/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825151	92270	E	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1	B	11/9/2018	11/9/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825179	92270	E	MB	P	3"	506	Less than or equal to 60	Code 1	B	11/12/2018	11/12/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825200	92270	N	DB	P	1/2" CTS	535	Less than or equal to 60	Code 1	B	11/12/2018	11/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825275	92270	N	DB	P	1/2" CTS	19	Less than or equal to 60	Code 1	B	11/13/2018	11/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825322	92270	E	DB	PC	3/4"	758	Less than or equal to 60	Code 1	B	11/14/2018	11/14/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825337	92270	E	DB	P	1 1/4"	506	Less than or equal to 60	Code 1	B	11/12/2018	11/12/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825377	92270	E	DB	P	1"	242	Less than or equal to 60	Code 1	B	11/15/2018	11/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825382	92270	N	MB	P	1 1/4"	482	Less than or equal to 60	Code 1	B	11/15/2018	11/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825437	92270	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/15/2018	11/15/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825461	92270	N	MB	P	2"	578	Less than or equal to 60	Code 2	B	11/16/2018	11/20/2018	5	0.2988	1.494	
1825542	92270	E	DB	P	1"	18	Less than or equal to 60	Code 1	B	11/19/2018	11/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825585	92270	E	DB	P	1/2" CTS	434	Less than or equal to 60	Code 1	B	11/19/2018	11/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825688	92270	E	DB	P	1"	97	Less than or equal to 60	Code 1	B	11/21/2018	11/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825775	92270	E	DB	P	1/2" CTS	530	Less than or equal to 60	Code 1	B	11/24/2018	11/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825984	92270	E	DB	P	1"		Less than or equal to 60	Code 1	B	11/28/2018	11/28/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826025	92270	N	DB	P	1/2" CTS	434	Less than or equal to 60	Code 1	B	11/28/2018	11/28/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826115	92270	E	DB	P	1"		Less than or equal to 60	Code 1	B	11/30/2018	11/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826186	92270	E	DB	P	1"	54	Less than or equal to 60	Code 1	B	12/3/2018	12/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801674	92373	E	DB	P	1/2" CTS	506	Less than or equal to 60	Code 1	B	1/21/2018	1/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801675	92373	E	DB	P	1/2" CTS	506	Less than or equal to 60	Code 1	B	1/21/2018	1/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801901	92373	E	DB	P	1/2" CTS	410	Less than or equal to 60	Code 1	B	1/23/2018	1/23/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801959	92373	E	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1	B	1/24/2018	1/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802058	92373	N	DB	P	1/2" CTS	578	Less than or equal to 60	Code 1	B	1/24/2018	1/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802064	92373	E	DB	PC	3/4"	782	Less than or equal to 60	Code 1	B	1/25/2018	1/25/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802217	92373	E	MB	P	2"	578	Less than or equal to 60	Code 1	B	1/26/2018	1/26/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802225	92373	E	DB	PC	3/4"	782	Less than or equal to 60	Code 1	B	1/26/2018	1/26/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1802321	92373	E	DB	P	1"		Less than or equal to 60	Code 1	B	1/29/2018	1/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802371	92373	E	DB	PC	3/4"	854	Less than or equal to 60	Code 1	B	1/29/2018	1/29/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802428	92373	N	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1	B	1/29/2018	1/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1802499	92373	E	MB	P	1 1/4"	482	Less than or equal to 60	Code 1	B	1/30/2018	1/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806154	92509	E	MB	P	2"		Less than or equal to 60	Code 1	B	3/13/2018	3/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806465	92509	E	DB	PC	3/4"	650	Less than or equal to 60	Code 1	B	3/17/2018	3/17/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806578	92509	E	DB	PC	3/4"	551	Less than or equal to 60	Code 1	B	3/19/2018	3/19/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806679	92509	E	DB	P	1"	242	Less than or equal to 60	Code 1	B	3/20/2018	3/20/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806727	92509	E	DB	P	1/2" CTS	566	Less than or equal to 60	Code 1	B	3/21/2018	3/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806753	92509	E	DB	P	1/2" CTS	186	Less than or equal to 60	Code 1	B	3/21/2018	3/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1806795	92509	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	3/21/2018	3/21/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807117	92509	E	DB	P	1/2" CTS	578	Less than or equal to 60	Code 1	B	3/27/2018	3/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807120	92509	E	DB	P	1/2" CTS	554	Less than or equal to 60	Code 1	B	3/27/2018	3/27/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807327	92509	E	DB	P	1/2" IPS	554	Less than or equal to 60	Code 1	B	3/29/2018	3/29/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807332	92509	E	DB	PC	3/4"	602	Less than or equal to 60	Code 1	B	3/29/2018	3/29/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807419	92509	E	MB	P	2"	13	Less than or equal to 60	Code 1	B	3/30/2018	3/30/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807546	92509	E	DB	P	1"	21	Less than or equal to 60	Code 1	B	4/2/2018	4/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807583	92509	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	4/2/2018	4/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807594	92509	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/2/2018	4/2/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807716	92571	E	MB	P	2"		Less than or equal to 60	Code 1	B	4/3/2018	4/3/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807778	92571	E	MB	P	2"	50	Less than or equal to 60	Code 1	B	4/4/2018	4/4/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807998	92571	N	DB	PC	3/4"	542	Less than or equal to 60	Code 1	B	4/6/2018	4/6/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808031	92571	E	MB	P	3"	483	Less than or equal to 60	Code 1	B	4/7/2018	4/7/2018	1		100.8	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808218	92571	E	DB	P	1/2" CTS	230	Less than or equal to 60	Code 1	B	3/22/2018	3/22/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808233	92571	E	MB	P	2"	28	Less than or equal to 60	Code 1	B	4/10/2018	4/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808268	92571	E	DB	P	1"	230	Less than or equal to 60	Code 1	B	4/10/2018	4/10/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808608	92571	E	DB	P	1/2" CTS	290	Less than or equal to 60	Code 1	B	4/13/2018	4/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808616	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	4/13/2018	4/13/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808820	92571	E	DB	P	1/2" CTS	494	Less than or equal to 60	Code 1	B	4/17/2018	4/17/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809013	92571	E	DB	P	1/2" IPS	421	Less than or equal to 60	Code 1	B	4/18/2018	4/18/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809131	92571	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	4/19/2018	4/19/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809400	92571	E	DB	PC	3/4"	878	Less than or equal to 60	Code 1	B	4/23/2018	4/23/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809492	92571	E	DB	P	1"		Less than or equal to 60	Code 1	B	4/24/2018	4/24/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809827	92571	E	DB	P	1"	43	Less than or equal to 60	Code 1	B	4/26/2018	4/26/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1809842	92571	E	DB	P	1/2" CTS	470	Less than or equal to 60	Code 1	B	4/26/2018	4/26/2018	1		18.6	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801127	92127	O	DB	Unknown			Less than or equal to 60	Code 1	B	1/12/2018	1/12/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1801562	91911	O	DB	Unknown			Less than or equal to 60	Code 1	B	1/18/2018	1/18/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1807425	92509	O	DB	Unknown			Less than or equal to 60	Code 1	B	3/30/2018	3/30/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1808140	92071	O	DB	Unknown			Less than or equal to 60	Code 2	B	4/9/2018	4/9/2018	1	0.06	0.1	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1811200	92571	O	DB	Unknown			Less than or equal to 60	Code 1	B	5/14/2018	5/14/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1812434	92571	O	DB	Unknown			Less than or equal to 60	Code 1	B	5/14/2018	5/14/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1814675	92103	O	DB	Unknown			Less than or equal to 60	Code 1	B	6/26/2018	6/26/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815066	91941	O	DB	Unknown			Less than or equal to 60	Code 1	B	6/29/2018	6/29/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819382	92270	O	DB	Unknown			Less than or equal to 60	Code 1	B	8/25/2018	8/25/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820035	92064	O	DB	Unknown			Less than or equal to 60	Code 1	B	8/31/2018	8/31/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1820243	92270	O	DB	Unknown			Less than or equal to 60	Code 1	B	9/5/2018	9/5/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1821337	92037	O	DB	Unknown			Less than or equal to 60	Code 1	B	9/18/2018	9/18/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822337	92154	O	DB	Unknown			Less than or equal to 60	Code 1	B	9/29/2018	9/29/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1822928	92020	O	DB	Unknown			Less than or equal to 60	Code 1	B	10/8/2018	10/8/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823655	92106	O	DB	Unknown			Less than or equal to 60	Code 1	B	10/17/2018	10/17/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825287	92116	O	DB	Unknown			Less than or equal to 60	Code 1	B	11/13/2018	11/13/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826125	92027	O	DB	Unknown			Less than or equal to 60	Code 1	B	12/1/2018	12/1/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826495	92129	O	DB	Unknown			Less than or equal to 60	Code 1	B	12/7/2018	12/7/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826512	92115	O	DB	Unknown			Less than or equal to 60	Code 1	B	12/8/2018	12/8/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1826684	92028	O	DB	Unknown			Less than or equal to 60	Code 2	B	12/11/2018			0.06	21.9	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1826685	92056	O	DB	Unknown			Less than or equal to 60	Code 2	B	12/11/2018			0.06	21.9	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1826871	91910	O	DB	Unknown			Less than or equal to 60	Code 1	B	12/13/2018	12/13/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1827509	92114	O	DB	Unknown			Less than or equal to 60	Code 1	B	12/28/2018	12/28/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1811676	92663	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	5/18/2018	5/18/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1815064	92020	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	6/29/2018	6/29/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1817189	92127	E	DB	Unknown	3/4"		Less than or equal to 60	Code 1	B	7/19/2018	7/19/2018	1		19.5	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1818229	93422	E	DB	Unknown	1"		Less than or equal to 60	Code 1	B	8/10/2018	8/10/2018	1		37.4	Emission estimated from population of similar events. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1819792	92083	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	8/26/2018	8/26/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1823157		E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	10/10/2018	10/10/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1824280	93274	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	10/25/2018	10/25/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1825196	92008	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	11/12/2018	11/12/2018	1		21.2	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
													Sum Total	9,673	

SDG&E, June 14, 2019

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 2019 June Report
Appendix 4; Rev. 03/29/19

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) (in)	Length of Pipe (ft)	Pressure (psi)	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	SDG&E Territory	248	N/A	N/A	N/A	0.666	Distribution Odor Intensity Tests
N/A	SDG&E Territory	N/A	16	15.5	320	0.525	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	2	2.067	320	0.001	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	20	19.5	320	1.031	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	3	3.124	320	0.004	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	4	4.124	320	0.009	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	6	6.249	320	0.030	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	8	8.125	320	0.069	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	4	4.124	55	0.002	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1 1/4	1.318	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1/2	0.437	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	2.00	1.931	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	3	2.876	55	0.001	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	4	3.816	55	0.002	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	6	5.621	55	0.005	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1 1/2	1.61	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1 1/4	1.372	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1	1.049	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	10	10.25	55	0.026	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	2	2.067	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	3	3.124	55	0.001	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	30	29.376	55	0.683	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	4	4.124	55	0.002	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	6	6.249	55	0.006	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1 1/2	1.533	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1 1/4	1.318	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1	1.067	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1/2	0.437	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	2	1.931	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	3	2.876	55	0.001	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1 1/2	1.61	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1 1/4	1.372	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1	1.049	55	0.000	Abandoned HP Pipe

ID	Geographic Location	Number of Blowdown Events	Pipe Size (nominal) (in)	Length of Pipe (ft)	Pressure (psi)	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	SDG&E Territory	N/A	2	2.067	55	0.000	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	3	3.124	55	0.001	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	3/4	0.76	55	0.000	Abandoned HP Pipe
N/A	91902	1	N/A	N/A	N/A	128.000	Blowndown & Purged
N/A	91902	1	N/A	N/A	N/A	169.000	Blowndown & Purged
N/A	SDG&E Territory	1	N/A	N/A	N/A	9.210	Tie-In Project
N/A	SDG&E Territory	1	N/A	N/A	N/A	136.000	Line removal
					Sum Total	445	

SDG&E, June 14, 2019

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 2019 June Report
Appendix 4; Rev. 03/29/19

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

Note: No devices

Sum Total **0**

SDG&E, June 14, 2019

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 2019 June Report
Appendix 4; Rev. 03/29/19

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

Distribution Main & Service Pipeline Component Fugitive Leaks (see note above):

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
Note: No Component Leaks									
							Sum total	0	

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.	New Column
Above Ground or Below Ground	A = Above Ground B = below ground	
Leak Discovery Method	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.) M = O&M (E.G. O&M Activities, Third party reports, customer odor reports etc.) O = Other (This will be grouped with M in the summary categorization of leaks.)	
Discovery Date (MM/DD/YY)		

Re-Grade Date (MM/DD/YY)		New Column
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)	If leak is open, specify the scheduled date of repair; Otherwise type "M," signifying that the leak is being monitored with no scheduled date of repair; Then, provide the reason for not scheduling a repair in Column 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	If the leak was discovered by survey in the year of interest, then assume leaking from January 1st of subject year thru repair date or December 31st of subject year, which ever is earlier. (E.G. Days Leaking = Repair - Jan 1st + 1 day.) (For days leaking for leaks carried over use January 1st as start date for emissions calculations.) For O&M discovered leaks, assume that the leak begins with the discovery date thru repair date or December 31st of subject year, whichever is earlier.	

Number of Days to Repair	Use only Repair-Discovery +1. Do not use January 1st for time to repair. For regraded leaks, use Repair Date - Regrade Date +1.
Emission Factor (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Unsurveyed Pipeline Leaks	
2017 Emissions from O&M* Leaks Detected in 2016 (Mscf)	O&M Sources Include: O&M Activities Customer Odor Reports Third Party Reports and other
2017 Estimated Emissions from Unknown Leaks (Mscf)	Calculation based on the input from column J above.

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	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. 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. 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.
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 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 thru repair date or December 31st of subject year, whichever is earlier.
Emission Factor (Mscf/day)	
Annual Emission (Mscf)	
Explanatory Notes / Comments	