SDG&E, June 15, 2018

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 2018 June Report
Appendix 4; Rev. 03/31/18

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."

s from leaks carried over from before 2017	42
sions from Survey leaks discovered in 2017	1,325
isions from O&M Leaks discovered in 2017	157
and Total of all 2017 emissions from leaks	1,523

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
1616028	92114	MB	PC	2"	439	Less than or Equal to 60	Code 2	N/A	B	M	7/25/2016	N/A	1/30/2017			30	190	0.0612	1.8360	
1617564	92075	MB	PC	1 1/2"	571	Less than or Equal to 60	Code 2	N/A	B	S	8/16/2016	N/A	1/30/2017			30	168	0.0612	1.8360	
1620853	92024	DB	PB	3/4"	705	Less than or Equal to 60	Code 2	N/A	B	S	9/28/2016	N/A	4/13/2017			103	198	0.0276	2.8428	
1622509	92111	DB	PC	3/4"	910	Less than or Equal to 60	Code 2	N/A	B	M	10/19/2016	N/A	1/10/2017			10	84	0.0276	0.2760	
1623470	92083	MB	PC	1 1/2"	766	Less than or Equal to 60	Code 2	N/A	B	S	11/2/2016	N/A	1/4/2017			4	64	0.0612	0.2448	
1623920	92083	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	S	11/12/2016	N/A	1/14/2017			14	64	0.0276	0.3864	
1623978	92054	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	S	11/14/2016	N/A	1/25/2017			25	73	0.0276	0.6900	
1624022	92026	DB	P	1 1/4"		Less than or Equal to 60	Code 2	N/A	B	S	11/15/2016	N/A	1/13/2017			13	60	0.0089	0.1157	
1624228	92008	DB	PC	3/4"	191	Less than or Equal to 60	Code 2	N/A	B	S	11/18/2016	N/A	2/8/2017			39	83	0.0276	1.0764	
1624265	92109	DB	PB	3/4"	815	Less than or Equal to 60	Code 2	N/A	B	M	11/20/2016	N/A	2/7/2017			38	80	0.0276	1.0488	
1624653	92118	DB	PC	3/4"	623	Less than or Equal to 60	Code 2	N/A	B	M	11/30/2016	N/A	2/8/2017			39	71	0.0276	1.0764	
1624977	92037	DB	PC	3/4"	33	Less than or Equal to 60	Code 2	N/A	B	M	12/6/2016	N/A	3/3/2017			62	88	0.0276	1.7112	
1625249	92024	MB	PC	4"	527	Less than or Equal to 60	Code 2	N/A	B	M	12/10/2016	N/A	3/9/2017			68	90	0.0612	4.1616	
1625518	92057	MB	P	2"	515	Less than or Equal to 60	Code 2	N/A	B	M	12/15/2016	N/A	3/14/2017			73	90	0.2988	21.8124	
1626078	92027	MB	PC	2"	624	Less than or Equal to 60	Code 2	N/A	B	S	12/29/2016	N/A	2/15/2017			46	49	0.0612	2.8152	
1700145	92104	DB	PC	3/4"	408	Less than or Equal to 60	Code 1	N/A	B	M	1/4/2017	N/A	1/4/2017			1	1	0.0276	0.0276	
1700265	92124	DB	P	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/4/2017	N/A	1/4/2017			1	1	0.0089	0.0089	
1700267	92009	DB	P	1/2" CTS	540	Less than or Equal to 60	Code 1	N/A	B	M	1/5/2017	N/A	1/5/2017			1	1	0.0089	0.0089	
1700268	92021	MB	P	3"	444	Less than or Equal to 60	Code 1	N/A	B	M	1/5/2017	N/A	1/5/2017			1	1	0.2988	0.2988	
1700275	92114	MB	P	1 1/4"	492	Less than or Equal to 60	Code 1	N/A	B	M	1/4/2017	N/A	1/4/2017			1	1	0.2988	0.2988	
1700419	92129	MB	P	2"	468	Less than or Equal to 60	Code 1	N/A	B	M	1/7/2017	N/A	1/8/2017			2	2	0.2988	0.5976	
1700434	92083	MB	P	1 1/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/8/2017	N/A	1/8/2017			1	1	0.2988	0.2988	
1700438	91941	DB	P	1/2" CTS	468	Less than or Equal to 60	Code 1	N/A	B	M	1/9/2017	N/A	1/9/2017			1	1	0.0089	0.0089	
1700492	92120	MB	P	2"	408	Less than or Equal to 60	Code 1	N/A	B	M	1/9/2017	N/A	1/9/2017			1	1	0.2988	0.2988	
1700513	92117	DB	PC	3/4"	768	Less than or Equal to 60	Code 1	N/A	B	M	1/9/2017	N/A	1/9/2017			1	1	0.0276	0.0276	
1700551	92064	DB	PC	3/4"	588	Less than or Equal to 60	Code 1	N/A	B	M	1/9/2017	N/A	1/10/2017			2	2	0.0276	0.0552	
1700651	92120	DB	PC	3/4"	588	Less than or Equal to 60	Code 1	N/A	B	M	1/10/2017	N/A	1/10/2017			1	1	0.0276	0.0276	
1700664	92113	DB	P	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/10/2017	N/A	1/10/2017			1	1	0.0089	0.0089	
1700743	92113	DB	PC	3/4"	528	Less than or Equal to 60	Code 2	N/A	B	S	1/11/2017	N/A	3/2/2017			61	51	0.0276	1.6836	
1700753	92069	DB	P	3/4"	516	Less than or Equal to 60	Code 1	N/A	B	M	1/11/2017	N/A	1/11/2017			1	1	0.0089	0.0089	
1700756	92083	DB	PC	3/4"	696	Less than or Equal to 60	Code 1	N/A	B	M	1/11/2017	N/A	1/11/2017			1	1	0.0276	0.0276	
1700793	91911	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/12/2017	N/A	1/12/2017			1	1	0.0276	0.0276	
1700822	92069	MB	P	3"	444	Less than or Equal to 60	Code 2	N/A	B	M	1/13/2017	N/A	1/27/2017			15	15	0.2988	4.4820	
1700823	92037	MB	PC	1 1/2"	600	Less than or Equal to 60	Code 1	N/A	B	M	1/13/2017	N/A	1/13/2017			1	1	0.0612	0.0612	
1700931	92123	DB	PC	1"	540	Less than or Equal to 60	Code 1	N/A	B	M	1/14/2017	N/A	1/14/2017			1	1	0.0276	0.0276	
1700932	92057	MB	PC	1"	624	Less than or Equal to 60	Code 1	N/A	B	M	1/14/2017	N/A	1/14/2017			1	1	0.0612	0.0612	
1700942	92029	DB	P	1/2" CTS	444	Less than or Equal to 60	Code 1	N/A	B	M	1/14/2017	N/A	1/14/2017			1	1	0.0089	0.0089	
1700946	92104	DB	PC	3/4"	496	Less than or Equal to 60	Code 1	N/A	B	M	1/14/2017	N/A	1/14/2017			1	1	0.0276	0.0276	
1700952	91950	DB	PB	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/16/2017	N/A	1/16/2017			1	1	0.0276	0.0276	
1700957	91945	DB	PB	3/4"	805	Less than or Equal to 60	Code 1	N/A	B	M	1/16/2017	N/A	1/16/2017			1	1	0.0276	0.0276	
1700974	92057	DB	P	1/2" CTS	517	Less than or Equal to 60	Code 1	N/A	B	M	1/16/2017	N/A	1/16/2017			1	1	0.0089	0.0089	
1700977	92057	MB	Unknown	3/4"	613	Less than or Equal to 60	Code 1	N/A	B	M	1/17/2017	N/A	1/17/2017			1	1	0.2988	0.2988	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1701014	92131	DB	P	1/2" CTS	385	Less than or Equal to 60	Code 1	N/A	B	M	1/17/2017	N/A	1/17/2017			1	1	0.0089	0.0089	
1701128	91950	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/17/2017	N/A	1/17/2017			1	1	0.0276	0.0276	
1701133	92019	MB	P	3"	517	Less than or Equal to 60	Code 1	N/A	B	M	1/17/2017	N/A	1/18/2017			2	2	0.2988	0.5976	
1701136	92110	DB	P	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/17/2017	N/A	1/17/2017			1	1	0.0089	0.0089	
1701142	92054	MB	PB	3"	829	Less than or Equal to 60	Code 1	N/A	B	M	1/18/2017	N/A	1/18/2017			1	1	0.0612	0.0612	
1701143	92154	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/18/2017	N/A	1/18/2017			1	1	0.0276	0.0276	
1701186	92037	DB	PC	3/4"	553	Less than or Equal to 60	Code 2	N/A	B	M	1/18/2017	N/A	3/28/2017			70	70	0.0276	1.9320	
1701243	91942	DB	PC	3/4"	697	Less than or Equal to 60	Code 1	N/A	B	M	1/18/2017	N/A	1/18/2017			1	1	0.0276	0.0276	
1701249	91977	DB	P	1/2" CTS	469	Less than or Equal to 60	Code 1	N/A	B	M	1/18/2017	N/A	1/18/2017			1	1	0.0089	0.0089	
1701256	92104	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	N/A	B	M	1/18/2017	N/A	1/18/2017			1	1	0.0089	0.0089	
1701261	92021	MB	PC	1 1/2"	805	Less than or Equal to 60	Code 2	N/A	B	M	1/19/2017	N/A	4/4/2017			76	76	0.0612	4.6512	
1701341	92116	DB	PC	3/4"	781	Less than or Equal to 60	Code 1	N/A	B	M	1/19/2017	N/A	1/19/2017			1	1	0.0276	0.0276	
1701349	92084	MB	P	1 1/4"	457	Less than or Equal to 60	Code 1	N/A	B	M	1/19/2017	N/A	1/19/2017			1	1	0.2988	0.2988	
1701365	92154	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/18/2017	N/A	1/19/2017			2	2	0.0276	0.0552	
1701397	92025	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/21/2017	N/A	1/21/2017			1	1	0.0276	0.0276	
1701412	91902	DB	P	1/2" CTS	454	Less than or Equal to 60	Code 1	N/A	B	M	1/22/2017	N/A	1/22/2017			1	1	0.0089	0.0089	
1701418	92083	DB	PC	3/4"	697	Less than or Equal to 60	Code 1	N/A	B	M	1/22/2017	N/A	1/22/2017			1	1	0.0276	0.0276	
1701419	92105	MB	PC	1 1/4"	757	Less than or Equal to 60	Code 1	N/A	B	M	1/22/2017	N/A	1/22/2017			1	1	0.0612	0.0612	
1701439	92028	MB	P	2"	613	Less than or Equal to 60	Code 1	N/A	B	M	1/21/2017	N/A	1/22/2017			2	2	0.2988	0.5976	
1701464	92084	MB	P	2"	313	Less than or Equal to 60	Code 1	N/A	B	M	1/23/2017	N/A	1/23/2017			1	1	0.2988	0.2988	
1701480	92020	DB	PC	3/4"	685	Less than or Equal to 60	Code 1	N/A	B	M	1/23/2017	N/A	1/23/2017			1	1	0.0276	0.0276	
1701483	92116	DB	PB	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/23/2017	N/A	1/23/2017			1	1	0.0276	0.0276	
1701493	92131	MB	P	2"	385	Less than or Equal to 60	Code 1	N/A	B	M	1/23/2017	N/A	1/23/2017			1	1	0.2988	0.2988	
1701500	92069	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/23/2017	N/A	1/23/2017			1	1	0.0276	0.0276	
1701508	92064	MB	P	1 1/4"	469	Less than or Equal to 60	Code 1	N/A	B	M	1/23/2017	N/A	1/24/2017			2	2	0.2988	0.5976	
1701525	92114	DB	P	1/2" IPS	481	Less than or Equal to 60	Code 1	N/A	B	M	1/21/2017	N/A	1/21/2017			1	1	0.0089	0.0089	
1701557	92084	DB	PC	3/4"	685	Less than or Equal to 60	Code 1	N/A	B	M	1/23/2017	N/A	1/23/2017			1	1	0.0276	0.0276	
1701590	92057	MB	PC	1 1/2"	613	Less than or Equal to 60	Code 1	N/A	B	M	1/24/2017	N/A	1/24/2017			1	1	0.0612	0.0612	
1701632	92109	DB	P	1/2" CTS	409	Less than or Equal to 60	Code 1	N/A	B	M	1/24/2017	N/A	1/24/2017			1	1	0.0089	0.0089	
1701635	92029	MB	PC	1 1/2"	649	Less than or Equal to 60	Code 1	N/A	B	M	1/25/2017	N/A	1/25/2017			1	1	0.0612	0.0612	
1701636	92116	DB	PC	3/4"	649	Less than or Equal to 60	Code 1	N/A	B	M	1/25/2017	N/A	1/25/2017			1	1	0.0276	0.0276	
1701637	92106	DB	PC	3/4"	757	Less than or Equal to 60	Code 1	N/A	B	M	1/24/2017	N/A	1/25/2017			2	2	0.0276	0.0552	
1701704	91910	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	S	1/25/2017	N/A	1/27/2017			27	3	0.0276	0.7452	
1701712	92105	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/23/2017	N/A	1/24/2017			2	2	0.0276	0.0552	
1701760	92102	DB	PC	1 1/4"	517	Less than or Equal to 60	Code 1	N/A	B	M	1/25/2017	N/A	1/25/2017			1	1	0.0276	0.0276	
1701762	92020	DB	PB	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/25/2017	N/A	1/25/2017			1	1	0.0276	0.0276	
1701768	92029	DB	PC	3/4"	385	Less than or Equal to 60	Code 1	N/A	B	M	1/25/2017	N/A	1/25/2017			1	1	0.0276	0.0276	
1701808	91977	MB	P	3"	517	Less than or Equal to 60	Code 1	N/A	B	M	1/26/2017	N/A	1/26/2017			1	1	0.2988	0.2988	
1701871	92124	MB	P	2"	553	Less than or Equal to 60	Code 1	N/A	B	M	1/26/2017	N/A	1/27/2017			2	2	0.2988	0.5976	
1701903	91977	DB	PC	3/4"	565	Less than or Equal to 60	Code 1	N/A	B	M	1/26/2017	N/A	1/26/2017			1	1	0.0276	0.0276	
1701905	92123	DB	PC	3/4"	685	Less than or Equal to 60	Code 1	N/A	B	M	1/27/2017	N/A	1/27/2017			1	1	0.0276	0.0276	

1702007	92027	DB	PC	3/4"	685	Less than or Equal to 60	Code 1	N/A	B	M	1/28/2017	N/A	1/28/2017	1	1	0.0276	0.0276	
1702045	92129	DB	P	2"	469	Less than or Equal to 60	Code 1	N/A	B	M	1/27/2017	N/A	1/27/2017	1	1	0.0089	0.0089	
1702091	91941	DB	PB	3/4"	781	Less than or Equal to 60	Code 1	N/A	B	M	1/30/2017	N/A	1/30/2017	1	1	0.0276	0.0276	
1702126	92057	DB	PC	3/4"	565	Less than or Equal to 60	Code 1	N/A	B	M	1/30/2017	N/A	1/30/2017	1	1	0.0276	0.0276	
1702136	92122	MB	P	2"	373	Less than or Equal to 60	Code 1	N/A	B	M	1/30/2017	N/A	1/30/2017	1	1	0.2988	0.2988	
1702138	91941	MB	P	2"	409	Less than or Equal to 60	Code 1	N/A	B	M	1/30/2017	N/A	1/30/2017	1	1	0.2988	0.2988	
1702144	92008	DB	P	1 1/4"	433	Less than or Equal to 60	Code 1	N/A	B	M	1/30/2017	N/A	1/31/2017	2	2	0.0089	0.0178	
1702153	92105	DB	PC	3/4"	949	Less than or Equal to 60	Code 1	N/A	B	M	1/31/2017	N/A	2/1/2017	2	2	0.0276	0.0552	
1702163	92114	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/31/2017	N/A	1/31/2017	1	1	0.0276	0.0276	
1702235	92102	DB	P	1 1/4"	529	Less than or Equal to 60	Code 2	N/A	B	S	1/31/2017	N/A	3/20/2017	79	49	0.0089	0.7031	
1702264	92154	DB	P	1 1/4"	481	Less than or Equal to 60	Code 1	N/A	B	M	2/1/2017	N/A	2/1/2017	1	1	0.0089	0.0089	
1702285	92057	DB	PC	3/4"	613	Less than or Equal to 60	Code 2	N/A	B	M	1/30/2017	N/A	1/31/2017	2	2	0.0276	0.0552	
1702326	91910	MB	PC	1 1/2"	769	Less than or Equal to 60	Code 1	N/A	B	M	1/31/2017	N/A	2/2/2017	3	3	0.0612	0.1836	
1702344	92105	DB	PC	3/4"	757	Less than or Equal to 60	Code 1	N/A	B	M	2/1/2017	N/A	2/1/2017	1	1	0.0276	0.0276	
1702395	91941	MB	PB	1 1/2"	733	Less than or Equal to 60	Code 1	N/A	B	M	2/1/2017	N/A	2/1/2017	1	1	0.0612	0.0612	
1702402	92104	DB	PC	3/4"	745	Less than or Equal to 60	Code 1	N/A	B	M	2/1/2017	N/A	2/1/2017	1	1	0.0276	0.0276	
1702425	91977	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	2/1/2017	N/A	2/1/2017	1	1	0.0276	0.0276	
1702435	92024	MB	PC	1 1/2"	745	Less than or Equal to 60	Code 1	N/A	B	M	2/1/2017	N/A	2/2/2017	2	2	0.0612	0.1224	
1702439	92057	MB	P	2"	529	Less than or Equal to 60	Code 1	N/A	B	M	2/2/2017	N/A	2/2/2017	1	1	0.2988	0.2988	
1702460	92103	MB	P	1 1/4"	460	Less than or Equal to 60	Code 1	N/A	B	M	2/1/2017	N/A	2/2/2017	2	2	0.2988	0.5976	
1702578	92064	MB	P	3"	541	Less than or Equal to 60	Code 1	N/A	B	M	2/2/2017	N/A	2/3/2017	2	2	0.2988	0.5976	
1702620	92102	DB	P	1 1/4"	529	Less than or Equal to 60	Code 1	N/A	B	S	2/3/2017	N/A	2/3/2017	34	1	0.0089	0.3026	
1702623	92124	DB	Unknown		553	Less than or Equal to 60	Code 2	N/A	B	M	2/3/2017	N/A	2/20/2017	18	18	0.0600	1.0800	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1702625	91932	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	2/3/2017	N/A	2/3/2017	1	1	0.0276	0.0276	
1702658	92124	MB	P	2"	517	Less than or Equal to 60	Code 1	N/A	B	M	2/5/2017	N/A	2/5/2017	1	1	0.2988	0.2988	
1702659	92111	MB	P	2"		Less than or Equal to 60	Code 1	N/A	B	M	2/6/2017	N/A	2/6/2017	1	1	0.2988	0.2988	
1702661	91977	DB	PC	3/4"	697	Less than or Equal to 60	Code 1	N/A	B	M	2/6/2017	N/A	2/6/2017	1	1	0.0276	0.0276	
1702690	92102	DB	PC	1 1/4"	661	Less than or Equal to 60	Code 1	N/A	B	S	2/6/2017	N/A	2/6/2017	37	1	0.0276	1.0212	
1702692	92102	MB	P	2"	501	Less than or Equal to 60	Code 1	N/A	B	S	2/6/2017	N/A	2/7/2017	38	2	0.2988	11.3544	
1702695	92118	DB	PC	1"	1,114	Less than or Equal to 60	Code 1	N/A	B	M	2/6/2017	N/A	2/6/2017	1	1	0.0276	0.0276	
1702736	92104	DB	P	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	1/30/2017	N/A	1/31/2017	2	2	0.0089	0.0178	
1702781	91950	DB	PC	3/4"	637	Less than or Equal to 60	Code 1	N/A	B	M	2/7/2017	N/A	2/8/2017	2	2	0.0276	0.0552	
1702800	92114	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	2/8/2017	N/A	2/8/2017	1	1	0.0276	0.0276	
1702852	92014	MB	P	2"	541	Less than or Equal to 60	Code 1	N/A	B	M	2/7/2017	N/A	2/7/2017	1	1	0.2988	0.2988	
1702879	92075	MB	P	1 1/4"	517	Less than or Equal to 60	Code 1	N/A	B	M	2/8/2017	N/A	2/8/2017	1	1	0.2988	0.2988	
1702881	92104	MB	PC	4"	913	Less than or Equal to 60	Code 3	N/A	B	M	2/8/2017	N/A	2/8/2017	1	1	0.0612	0.0612	
1702884	92116	DB	PC	3/4"	661	Less than or Equal to 60	Code 1	N/A	B	M	2/8/2017	N/A	2/8/2017	1	1	0.0276	0.0276	
1702987	92037	DB	PC	3/4"	697	Less than or Equal to 60	Code 2	N/A	B	M	2/9/2017	N/A	2/13/2017	5	5	0.0276	0.1380	
1702991	91910	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	2/9/2017	N/A	2/9/2017	1	1	0.0276	0.0276	
1702992	92105	DB	P	3/4"	517	Less than or Equal to 60	Code 1	N/A	B	M	2/9/2017	N/A	2/9/2017	1	1	0.0089	0.0089	
1702995	92119	DB	PB	1"	649	Less than or Equal to 60	Code 1	N/A	B	M	2/9/2017	N/A	2/10/2017	2	2	0.0276	0.0552	
1702998	92127	DB	PC	3/4"	577	Less than or Equal to 60	Code 1	N/A	B	M	2/9/2017	N/A	2/9/2017	1	1	0.0276	0.0276	
1703098	92008	DB	PC	3/4"	673	Less than or Equal to 60	Code 1	N/A	B	M	2/10/2017	N/A	2/10/2017	1	1	0.0276	0.0276	
1703104	92084	MB	PC	1 1/2"	625	Less than or Equal to 60	Code 1	N/A	B	M	2/11/2017	N/A	2/11/2017	1	1	0.0612	0.0612	
1703123	91910	DB	PC	3/4"	769	Less than or Equal to 60	Code 1	N/A	B	M	2/13/2017	N/A	2/13/2017	1	1	0.0276	0.0276	
1703235	91950	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	2/13/2017	N/A	2/13/2017	1	1	0.0276	0.0276	
1703242	92103	DB	PC	1 1/2"	625	Less than or Equal to 60	Code 1	N/A	B	M	2/13/2017	N/A	2/13/2017	1	1	0.0276	0.0276	
1703246	92037	DB	PC	1 1/2"	961	Less than or Equal to 60	Code 1	N/A	B	M	2/14/2017	N/A	2/14/2017	1	1	0.0276	0.0276	
1703252	91910	DB	PC	3/4"	577	Less than or Equal to 60	Code 2	N/A	B	S	2/14/2017	N/A	4/25/2017	115	71	0.0276	3.1740	
1703302	91911	MB	PC	1 1/2"		Less than or Equal to 60	Code 1	N/A	B	M	2/12/2017	N/A	2/12/2017	1	1	0.0612	0.0612	
1703355	91977	MB	PC	2"		Less than or Equal to 60	Code 1	N/A	B	M	2/14/2017	N/A	2/15/2017	2	2	0.0612	0.1224	
1703460	92154	MB	PC	1 1/2"	577	Less than or Equal to 60	Code 1	N/A	B	M	2/15/2017	N/A	2/15/2017	1	1	0.0612	0.0612	
1703474	92104	DB	PC	3/4"	746	Less than or Equal to 60	Code 2	N/A	B	S	2/16/2017	N/A	4/26/2017	116	70	0.0276	3.2016	
1703520	92104	DB	P	1/2" CTS	506	Less than or Equal to 60	Code 2	N/A	B	S	2/16/2017	N/A	4/27/2017	117	71	0.0089	1.0413	
1703560	92054	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	M	2/16/2017	N/A	2/16/2017	1	1	0.0276	0.0276	
1703575	91941	MB	P	2"		Less than or Equal to 60	Code 1	N/A	B	M	2/16/2017	N/A	2/17/2017	2	2	0.2988	0.5976	
1703612	92102	MB	PC	2"	1,057	Less than or Equal to 60	Code 2	N/A	B	S	2/17/2017	N/A	5/19/2017	139	92	0.0612	8.5068	
1703625	92064	DB	P	1/2" CTS	530	Less than or Equal to 60	Code 1	N/A	B	M	2/17/2017	N/A	2/17/2017	1	1	0.0089	0.0089	
1703657	92026	MB	PC	1 1/2"	602	Less than or Equal to 60	Code 1	N/A	B	M	2/20/2017	N/A	2/20/2017	1	1	0.0612	0.0612	
1703670	92020	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	2/20/2017	N/A	2/21/2017	2	2	0.0276	0.0552	
1703796	92037	DB	PC	3/4"	614	Less than or Equal to 60	Code 1	N/A	B	M	2/21/2017	N/A	2/21/2017	1	1	0.0276	0.0276	
1703801	92029	DB	PC	3/4"	710	Less than or Equal to 60	Code 1	N/A	B	M	2/21/2017	N/A	2/22/2017	2	2	0.0276	0.0552	
1703803	92116	MB	PC	1 1/2"	746	Less than or Equal to 60	Code 3	N/A	B	M	2/22/2017	N/A	5/23/2017	91	91	0.0612	5.5692	
1703858	92020	MB	PB	1 1/2"	794	Less than or Equal to 60	Code 1	N/A	B	M	2/21/2017	N/A	2/22/2017	2	2	0.0612	0.1224	
1703902	92116	DB	P	1/2" IPS	470	Less than or Equal to 60	Code 1	N/A	B	M	2/22/2017	N/A	2/22/2017	1	1	0.0089	0.0089	
1703917	92026	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	2/20/2017	N/A	2/20/2017	1	1	0.0276	0.0276	
1704063	92115	DB	PC	3/4"	782	Less than or Equal to 60	Code 2	N/A	B	M	2/24/2017	N/A	5/10/2017	76	76	0.0276	2.0976	
1704072	92103	DB	P	2"	506	Less than or Equal to 60	Code 1	N/A	B	M	2/24/2017	N/A	2/24/2017	1	1	0.0089	0.0089	
1704113	92007	DB	PC	3/4"	746	Less than or Equal to 60	Code 1	N/A	B	M	2/24/2017	N/A	2/24/2017	1	1	0.0276	0.0276	
1704126	91977	MB	PB	2"	206	Greater than 60	Code 2	N/A	B	M	2/25/2017	N/A	4/27/2017	62	62	0.0612	3.7944	
1704154	92102	DB	PC	3/4"	758	Less than or Equal to 60	Code 1	N/A	B	M	2/27/2017	N/A	2/27/2017	1	1	0.0276	0.0276	
1704404	92014	MB	P	2"	434	Less than or Equal to 60	Code 1	N/A	B	M	3/1/2017	N/A	3/1/2017	1	1	0.2988	0.2988	
1704497	92024	MB	PC	2"		Less than or Equal to 60	Code 3	N/A	B	M	3/1/2017	N/A	5/15/2017	76	76	0.0612	4.6512	
1704511	92104	DB	PC	1 1/2"	80	Less than or Equal to 60	Code 1	N/A	B	M	3/1/2017	N/A	3/2/2017	2	2	0.0276	0.0552	
1704536	91950	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	3/1/2017	N/A	3/2/2017	2	2	0.0276	0.0552	
1704671	91932	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	3/2/2017	N/A	3/2/2017	1	1	0.0276	0.0276	
1704735	92154	DB	P	1/2" IPS	374	Less than or Equal to 60	Code 1	N/A	B	S	3/3/2017	N/A	3/4/2017	63	2	0.0089	0.5607	
1704757	92024	MB	PC	1 1/2"	746	Less than or Equal to 60	Code 1	N/A	B	M	3/3/2017	N/A	3/3/2017	1	1	0.0612	0.0612	
1704771	92129	MB	P	1 1/4"	446	Less than or Equal to 60	Code 1	N/A	B	M	3/3/2017	N/A	3/3/2017	1	1	0.2988	0.2988	
1704784	92007	DB	PC	3/4"	746	Less than or Equal to 60	Code 1	N/A	B	M	3/3/2017	N/A	3/4/2017	2	2	0.0276	0.0552	
1704818	92103	DB	P	1"	469	Less than or Equal to 60	Code 1	N/A	B	S	3/5/2017	N/A	3/6/2017	65	2	0.0089	0.5785	
1704830	92007	MB	PB	2"	746	Less than or Equal to 60	Code 1	N/A	B	M	3/4/2017	N/A	3/4/2017	1	1	0.0612	0.0612	
1704842	91932	DB	PC	3/4"	794	Less than or Equal to 60	Code 1	N/A	B	M	3/4/2017	N/A	3/4/2017	1	1	0.0276	0.0276	
1704849	91932	DB	PC	3/4"	794	Less than or Equal to 60	Code 1	N/A	B	M	3/3/2017	N/A	3/3/2017	1	1	0.0276	0.0276	
1704854	91911	DB	PC	3/4"	626	Less than or Equal to 60	Code 2	N/A	B	S	3/6/2017	N/A	4/29/2017	119	55	0.0276	3.2844	
1704936	92115	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	3/6/2017	N/A	3/6/2017	1	1	0.0276	0.0276	
1704939	92128	MB	P	2"		Less than or Equal to 60	Code 2	N/A	B	M	3/7/2017	N/A	3/14/2017	8	8	0.2988	2.3904	
1705057	91942	DB	PC	1"		Less than or Equal to 60	Code 1	N/A	B	M	3/7/2017	N/A	3/8/2017	2	2	0.0276	0.0552	
1705058	92114	MB	P	2"	101	Less than or Equal to 60	Code 1	N/A	B	M	3/8/2017	N/A	3/8/2017	1	1	0.2988	0.2988	
1705063	92064	MB	P	2"	530	Less than or Equal to 60	Code 1	N/A	B	M	3/6/2017	N/A	3/8/2017	3	3	0.2988	0.8964	
1705075	92069	MB	PC	1 1/2"	530	Less than or Equal to 60	Code 1	N/A	B	M	3/3/2017	N/A	3/3/2017	1	1	0.0612	0.0612	
1705085	91910	MB	P	2"	458	Less than or Equal to 60	Code 1	N/A	B	M	3/8/2017	N/A	3/9/2017	2	2	0.2988	0.5976	
1705189	92115	MB	PC	1 1/2"	698	Less than or Equal to 60	Code 2	N/A	B	M	3/8/2017	N/A	3/14/2017	7	7	0.0612	0.4284	
1705348	92116	MB	PC	2"	818	Less than or Equal to 60	Code 2	N/A	B	M	3/9/2017	N/A	3/9/2017	1	1	0.0612	0.0612	
1705479	92069	DB	PC	3/4"	626	Less than or Equal to 60	Code 1	N/A	B	M	3/10/2017	N/A	3/10/2017	1	1	0.0276	0.0276	
1705487	92103	MB	P	2"	495	Less than or Equal to 60	Code 1	N/A	B	M	3/11/2017	N/A	3/11/2017	1	1	0.2988	0.2988	
1705526	91950	DB	PC	3/4"	722	Less than or Equal to 60	Code 1	N/A	B	M	3/12/2017	N/A	3/13/2017	2	2	0.0276	0.0552	
1705593	92037	DB	PC	3/4"	794	Less than or Equal to 60	Code 1	N/A	B	M	3/13/2017	N/A	3/13/2017	1	1	0.0276	0.0276	
1705661	92104	DB	P	1/2" CTS	302	Less than or Equal to 60	Code 2	N/A	B	S	3/14/2017	N/A	5/3/2017	123	51	0.0089	1.0947	
1705709	92069	DB	PC	3/4"	650	Less than or Equal to 60	Code 1	N/A	B	M	3/15/2017	N/A	3/15/2017	1	1	0.0276	0.0276	
1705860	92154	DB	PC	3/4"	566	Less than or Equal to 60	Code 1	N/A	B	S	3/16/2017	N/A	3/16/2017	75	1	0.0276	2.0700	
1705958	91910	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	S	3/17/2017	N/A	5/16/2017	136	61	0.0276	3.7536	
1705972	92154	DB	P	1/2" IPS	31	Less than or Equal to 60	Code 2	N/A	B	S	3/17/2017	N/A	5/3/2017	123	48	0.0089	1.0947	
1706069	91950	MB	PC	1"	1,111	Less than or Equal to 60	Code 1	N/A	B	S	3/20/2017	N/A	3/20/2017	79	1	0.0612	4.8348	
1706084	92103	DB	PC	3/4"	639	Less than or Equal to 60	Code 1	N/A	B	M	3/18/2017	N/A	3/19/2017	2	2	0.0276	0.0552	
1706121	92071	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	3/20/2017	N/A	3/20/2017	1	1	0.0276	0.0276	
1706122	92054	DB	PC	3/4"	735	Less than or Equal to 60	Code 1	N/A	B	M	3/20/2017	N/A	3/21/2017	2	2	0.0276	0.0552	

1706177	91950	DB	PC	3/4"		Greater than 60	Code 1	N/A	B	S	3/21/2017	N/A	3/22/2017	81	2	0.0276	2.2356	
1706208	91932	DB	PC	3/4"	711	Less than or Equal to 60	Code 1	N/A	B	S	3/21/2017	N/A	3/21/2017	80	1	0.0276	2.2080	
1706226	92104	DB	P	1/2" CTS	297	Less than or Equal to 60	Code 1	N/A	B	M	3/21/2017	N/A	3/21/2017	1	1	0.0089	0.0089	
1706273	92128	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	N/A	B	M	3/15/2017	N/A	3/16/2017	2	2	0.0089	0.0178	
1706336	92020	DB	PC	3/4"	639	Less than or Equal to 60	Code 1	N/A	B	M	3/22/2017	N/A	3/22/2017	1	1	0.0276	0.0276	
1706337	91950	MB	PC	1"		Less than or Equal to 60	Code 1	N/A	B	M	3/22/2017	N/A	3/22/2017	1	1	0.0612	0.0612	
1706557	92113	MB	PC	4"	1,134	Less than or Equal to 60	Code 2	N/A	B	S	3/25/2017	N/A	6/22/2017	173	90	0.0612	10.5876	
1706565	92106	MB	PC	1"	922	Less than or Equal to 60	Code 1	N/A	B	M	3/26/2017	N/A	3/27/2017	2	2	0.0612	0.1224	
1706684	92105	DB	PB	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	3/25/2017	N/A	3/25/2017	1	1	0.0276	0.0276	
1706786	92009	DB	P	1/2" CTS	510	Less than or Equal to 60	Code 1	N/A	B	M	3/27/2017	N/A	3/28/2017	2	2	0.0089	0.0178	
1706807	92037	DB	PC	3/4"	555	Less than or Equal to 60	Code 2	N/A	B	M	3/29/2017	N/A	6/22/2017	86	86	0.0276	2.3736	
1706830	92115	DB	PC	3/4"	927	Less than or Equal to 60	Code 1	N/A	B	M	3/29/2017	N/A	3/29/2017	1	1	0.0276	0.0276	
1706872	91932	DB	PC	3/4"	795	Less than or Equal to 60	Code 2	N/A	B	M	3/30/2017	N/A	5/15/2017	47	47	0.0276	1.2972	
1706975	91942	MB	PC	2"		Less than or Equal to 60	Code 1	N/A	B	M	3/30/2017	N/A	3/31/2017	2	2	0.0612	0.1224	
1707099	92025	MB	P	1 1/4"	507	Less than or Equal to 60	Code 1	N/A	B	M	3/31/2017	N/A	4/1/2017	2	2	0.2988	0.5976	
1707108	91932	MB	PC	1 1/2"	759	Less than or Equal to 60	Code 2	N/A	B	S	4/2/2017	N/A	7/1/2017	182	91	0.0612	11.1384	
1707114	92075	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	4/2/2017	N/A	4/3/2017	2	2	0.0276	0.0552	
1707142	92109	DB	P	1/2" CTS	291	Less than or Equal to 60	Code 1	N/A	B	M	4/2/2017	N/A	4/2/2017	1	1	0.0089	0.0089	
1707196	92154	MB	PC	2"		Less than or Equal to 60	Code 2	N/A	B	S	4/3/2017	N/A	7/17/2017	198	106	0.0612	12.1176	
1707207	92075	DB	PC	3/4"	783	Less than or Equal to 60	Code 2	N/A	B	M	4/3/2017	N/A	4/3/2017	1	1	0.0276	0.0276	
1707281	92014	MB	PB	2"	260	Less than or Equal to 60	Code 1	N/A	B	M	4/4/2017	N/A	4/5/2017	2	2	0.0612	0.1224	
1707392	91932	DB	PC	3/4"	711	Less than or Equal to 60	Code 2	N/A	B	S	4/5/2017	N/A	6/13/2017	164	70	0.0276	4.5264	
1707447	92111	DB	P	1/2" CTS	915	Less than or Equal to 60	Code 1	N/A	B	M	4/5/2017	N/A	4/5/2017	1	1	0.0089	0.0089	
1707452	91977	DB	PC	3/4"	20	Less than or Equal to 60	Code 1	N/A	B	M	4/5/2017	N/A	4/5/2017	1	1	0.0276	0.0276	
1707468	92054	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	M	4/6/2017	N/A	4/6/2017	1	1	0.0276	0.0276	
1707552	92105	DB	PC	3/4"	807	Less than or Equal to 60	Code 1	N/A	B	M	4/6/2017	N/A	4/7/2017	2	2	0.0276	0.0552	
1707629	92105	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	M	4/7/2017	N/A	7/25/2017	110	110	0.0276	3.0360	
1707643	91942	MB	PB	1 1/2"	699	Less than or Equal to 60	Code 1	N/A	B	M	4/8/2017	N/A	4/9/2017	2	2	0.0612	0.1224	
1707749	91941	MB	PC	2"	891	Less than or Equal to 60	Code 1	N/A	B	M	4/10/2017	N/A	4/10/2017	1	1	0.0612	0.0612	
1708047	92024	MB	P	1 1/4"	519	Less than or Equal to 60	Code 1	N/A	B	M	4/12/2017	N/A	4/12/2017	1	1	0.2988	0.2988	
1708090	92109	DB	PB	3/4"	699	Less than or Equal to 60	Code 1	N/A	B	M	4/17/2017	N/A	4/17/2017	1	1	0.0276	0.0276	
1708122	92103	DB	P	1 1/4"	519	Less than or Equal to 60	Code 1	N/A	B	M	4/12/2017	N/A	4/13/2017	2	2	0.0089	0.0178	
1708125	92114	DB	PC	3/4"	771	Less than or Equal to 60	Code 1	N/A	B	M	4/14/2017	N/A	4/14/2017	1	1	0.0276	0.0276	
1708211	92115	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	S	4/18/2017	N/A	7/13/2017	194	87	0.0276	5.3544	
1708279	92057	MB	PC	1 1/2"	616	Less than or Equal to 60	Code 2	N/A	B	M	4/19/2017	N/A	5/30/2017	42	42	0.0612	2.5704	
1725577	92008	DB	P			Less than or Equal to 60	Code 1	N/A	B	S	11/28/2017	N/A	11/28/2017	332	1	0.0089	2.9548	
1708684	92054	DB	PC	3/4"	616	Less than or Equal to 60	Code 1	N/A	B	M	4/21/2017	N/A	4/21/2017	1	1	0.0276	0.0276	
1708725	92123	MB	P	2"	520	Less than or Equal to 60	Code 1	N/A	B	M	4/24/2017	N/A	4/24/2017	1	1	0.2988	0.2988	
1708739	92124	DB	P	1/2" CTS		Less than or Equal to 60	Code 2	N/A	B	S	4/24/2017	N/A	7/20/2017	201	88	0.0089	1.7889	
1708785	92009	MB	P	2"	544	Less than or Equal to 60	Code 1	N/A	B	M	4/24/2017	N/A	4/24/2017	1	1	0.2988	0.2988	
1708786	91977	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	4/24/2017	N/A	4/24/2017	1	1	0.0276	0.0276	
1708863	92103	DB	P	1 1/4"	532	Less than or Equal to 60	Code 2	N/A	B	S	4/25/2017	N/A	6/1/2017	152	38	0.0089	1.3528	
1708886	92037	DB	PC	1"	640	Less than or Equal to 60	Code 1	N/A	B	M	4/25/2017	N/A	4/26/2017	2	2	0.0276	0.0552	
1709025	92107	MB	PB	1 1/2"	1,060	Less than or Equal to 60	Code 1	N/A	B	M	4/26/2017	N/A	4/27/2017	2	2	0.0612	0.1224	
1709070	92139	DB	PC	3/4"	557	Less than or Equal to 60	Code 2	N/A	B	M	5/26/2017	N/A	5/26/2017	1	1	0.0276	0.0276	
1709148	92107	MB	PC	1 1/2"	1,060	Less than or Equal to 60	Code 1	N/A	B	M	4/27/2017	N/A	4/28/2017	2	2	0.0612	0.1224	
1709187	92114	MB	PC	1 1/2"	772	Less than or Equal to 60	Code 1	N/A	B	M	4/28/2017	N/A	5/1/2017	4	4	0.0612	0.2448	
1709203	92114	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	4/28/2017	N/A	4/28/2017	1	1	0.0276	0.0276	
1709225	92037	DB	PC	1"	640	Less than or Equal to 60	Code 1	N/A	B	M	4/25/2017	N/A	4/27/2017	3	3	0.0276	0.0828	
1709227	91932	DB	PC	3/4"	796	Less than or Equal to 60	Code 1	N/A	B	M	4/28/2017	N/A	4/28/2017	1	1	0.0276	0.0276	
1709245	91911	MB	P	3"	628	Less than or Equal to 60	Code 1	N/A	B	M	4/29/2017	N/A	4/30/2017	2	2	0.2988	0.5976	
1709288	92102	DB	PC	3/4"	904	Less than or Equal to 60	Code 1	N/A	B	M	5/1/2017	N/A	5/1/2017	1	1	0.0276	0.0276	
1709297	92116	DB	PC	1 1/2"		Less than or Equal to 60	Code 1	N/A	B	S	5/1/2017	N/A	5/1/2017	121	1	0.0276	3.3396	
1709324	92117	DB	PC	3/4"	772	Less than or Equal to 60	Code 1	N/A	B	M	5/1/2017	N/A	5/1/2017	1	1	0.0276	0.0276	
1709541	92120	DB	PC	1"	808	Less than or Equal to 60	Code 1	N/A	B	S	5/3/2017	N/A	5/3/2017	123	1	0.0276	3.3948	
1709627	92104	DB	PC	3/4"	520	Less than or Equal to 60	Code 1	N/A	B	M	5/4/2017	N/A	5/5/2017	2	2	0.0276	0.0552	
1709700	92037	DB	PC	3/4"	784	Greater than 60	Code 1	N/A	B	M	5/5/2017	N/A	5/5/2017	1	1	0.0276	0.0276	
1709902	92106	DB	PB	3/4"		Greater than 60	Code 1	N/A	B	M	5/9/2017	N/A	5/9/2017	1	1	0.0276	0.0276	
1710145	92103	DB	Unknown		536	Less than or Equal to 60	Code 1	N/A	B	S	5/11/2017	N/A	5/11/2017	131	1	0.0600	7.8600	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1710181	92103	DB	P	1 1/4"	536	Less than or Equal to 60	Code 1	N/A	B	S	5/11/2017	N/A	5/11/2017	131	1	0.0089	1.1659	
1710280	92111	DB	PC	3/4"	916	Less than or Equal to 60	Code 1	N/A	B	M	5/10/2017	N/A	5/10/2017	1	1	0.0276	0.0276	
1710330	92115	DB	PB	3/4"	904	Less than or Equal to 60	Code 1	N/A	B	M	5/13/2017	N/A	5/13/2017	1	1	0.0276	0.0276	
1710821	92111	DB	PC	3/4"	713	Less than or Equal to 60	Code 2	N/A	B	S	5/19/2017	N/A	8/29/2017	241	103	0.0276	6.6516	
1710901	92105	DB	PC	3/4"	749	Less than or Equal to 60	Code 1	N/A	B	M	5/19/2017	N/A	5/19/2017	1	1	0.0276	0.0276	
1710909	92106	MB	PC	6"	929	Less than or Equal to 60	Code 2	N/A	B	M	5/19/2017	N/A	8/31/2017	105	105	0.0612	6.4260	
1710912	91932	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	5/19/2017	N/A	5/19/2017	1	1	0.0276	0.0276	
1724450	92069	DB	Unknown			Less than or Equal to 60	Code 2	N/A	B	S	11/8/2017	N/A	12/12/2017	346	35	0.0600	20.7600	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1711032	92107	DB	PC	3/4"	197	Less than or Equal to 60	Code 1	N/A	B	M	5/22/2017	N/A	5/22/2017	1	1	0.0276	0.0276	
1711134	92104	DB	PC	3/4"	461	Less than or Equal to 60	Code 1	N/A	B	S	5/23/2017	N/A	5/24/2017	144	2	0.0276	3.9744	
1711172	91977	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	5/24/2017	N/A	5/25/2017	2	2	0.0276	0.0552	
1711245	92104	MB	PC	1 1/2"	43	Less than or Equal to 60	Code 1	N/A	B	M	5/24/2017	N/A	5/25/2017	2	2	0.0612	0.1224	
1711265	91942	MB	PC	1"	581	Less than or Equal to 60	Code 2	N/A	B	S	5/24/2017	N/A	6/15/2017	166	23	0.0612	10.1592	
1711269	92116	DB	P	1 1/4"	513	Less than or Equal to 60	Code 1	N/A	B	M	5/24/2017	N/A	5/25/2017	2	2	0.0089	0.0178	
1711274	91911	DB	PB	3/4"	761	Less than or Equal to 60	Code 1	N/A	B	M	5/22/2017	N/A	5/22/2017	1	1	0.0276	0.0276	
1711294	92024	DB	PC	3/4"	653	Less than or Equal to 60	Code 2	N/A	B	M	5/25/2017	N/A	5/25/2017	1	1	0.0276	0.0276	
1711368	92116	DB	P	1 1/4"		Less than or Equal to 60	Code 2	N/A	B	S	5/25/2017	N/A	7/25/2017	206	62	0.0089	1.8334	
1711389	91932	DB	PC	3/4"	773	Less than or Equal to 60	Code 1	N/A	B	M	5/25/2017	N/A	5/25/2017	1	1	0.0276	0.0276	
1711390	92114	DB	P	1/2" CTS	485	Less than or Equal to 60	Code 1	N/A	B	M	5/25/2017	N/A	5/25/2017	1	1	0.0089	0.0089	
1711428	92103	DB	PC	1 1/4"	519	Less than or Equal to 60	Code 1	N/A	B	S	5/26/2017	N/A	5/26/2017	146	1	0.0276	4.0296	
1711503	91945	MB	PC	1 1/2"	761	Less than or Equal to 60	Code 1	N/A	B	M	5/27/2017	N/A	5/28/2017	2	2	0.0612	0.1224	
1711542	92154	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	5/29/2017	N/A	5/30/2017	2	2	0.0276	0.0552	
1711569	92056	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	N/A	B	M	5/30/2017	N/A	5/30/2017	1	1	0.0089	0.0089	
1711619	92009	DB	P	1"		Less than or Equal to 60	Code 1	N/A	B	M	5/30/2017	N/A	5/31/2017	2	2	0.0089	0.0178	
1711673	92154	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	5/31/2017	N/A	5/31/2017	1	1	0.0276	0.0276	
1711682	92111	DB	PB	3/4"	917	Less than or Equal to 60	Code 2	N/A	B	S	5/31/2017	N/A	8/15/2017	227	77	0.0276	6.2652	
1711728	92107	MB	P	2"	209	Less than or Equal to 60	Code 1	N/A	B	M	5/31/2017	N/A	6/1/2017	2	2	0.2988	0.5976	
1711827	92110	MB	PC	1 1/2"	437	Less than or Equal to 60	Code 2	N/A	B	M	6/2/2017	N/A	7/18/2017	47	47	0.0612	2.8764	
1711857	92103	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	N/A	B	S	6/2/2017	N/A	6/2/2017	153	1	0.0089	1.3617	
1711916	92121	DB	P	1"	269	Less than or Equal to 60	Code 1	N/A	B	M	6/3/2017	N/A	6/3/2017	1	1	0.0089	0.0089	
1711917	92037	DB	PC	3/4"	677	Less than or Equal to 60	Code 1	N/A	B	M	6/3/2017	N/A	6/3/2017	1	1	0.0276	0.0276	
1712012	91941	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	M	6/5/2017	N/A	6/26/2017	22	22	0.0276	0.6072	
1712021	92037	MB	PC	1 1/2"	1,068	Less than or Equal to 60	Code 1	N/A	B	M	6/5/2017	N/A	6/5/2017	1	1	0.0612	0.0612	
1712022	92117	MB	PC	1 1/2"	773	Less than or Equal to 60	Code 1	N/A	B	M	6/5/2017	N/A	6/5/2017	1	1	0.0612	0.0612	
1712123	92037	MB	PC	1 1/2"	605	Less than or Equal to 60	Code 1	N/A	B	M	6/6/2017	N/A	6/7/2017	2	2	0.0612	0.1224	
1712124	92071	MB	P	2"	485	Less than or Equal to 60	Code 1	N/A	B	M	6/6/2017	N/A	6/6/2017	1	1	0.2988	0.2988	
1712210	92111	MB	PC	1 1/2"	917	Less than or Equal to 60	Code 1	N/A	B	S	6/7/2017	N/A	6/8/2017	159	2	0.0612	9.7308	
1712242	92111	DB	PC	3/4"	917	Less than or Equal to 60	Code 1	N/A	B	S	6/7/2017	N/A	6/8/2017	159	2	0.0276	4.3884	
1712341	92102	MB	Unknown		905	Less than or Equal to 60	Code 3	N/A	B	M	6/8/2017	N/A	6/9/2017	2	2	0.2988	0.5976	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1712347	92124	DB	P	2"		Less than or Equal to 60	Code 1	N/A	B	S	6/8/2017	N/A	6/9/2017	160	2	0.0089	1.4240	
1712371	91911	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	6/8/2017	N/A	6/9/2017	2	2	0.0276	0.0552	
1712398	92111	DB	PB	3/4"	917	Less than or Equal to 60	Code 1	N/A	B	S	6/9/2017	N/A	6/10/2017	161	2	0.0276	4.4436	
1712410	92154	DB	PC	3/4"	521	Less than or Equal to 60	Code 1	N/A	B	M	6/9/2017	N/A	6/9/2017	1	1	0.0276	0.0276	
1712446	92014	DB	PC	3/4"	25	Less than or Equal to 60	Code 1	N/A	B	M	6/9/2017	N/A	6/9/2017	1	1	0.0276	0.0276	
1712456	92116	DB	PC	3/4"	953	Less than or Equal to 60	Code 2	N/A	B	S	6/9/2017	N/A	8/15/2017	227	68	0.0276	6.2652	
1712473	92075	DB	PC	3/4"	581	Less than or Equal to 60	Code 2	N/A	B	M	6/10/2017	N/A	6/10/2017	1	1	0.0276	0.0276	
1712577	92124	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	6/12/2017	N/A	6/12/2017	1	1	0.0276	0.0276	
1712598	92103	MB	PC	2"	965	Less than or Equal to 60	Code 1	N/A	B	S	6/13/2017	N/A	6/14/2017	165	2	0.0612	10.0980	

1712627	92014	MB	PC	2"	629	Less than or Equal to 60	Code 1	N/A	B	M	6/13/2017	N/A	6/16/2017	4	4	0.0612	0.2448	
1712632	92104	DB	PC	3/4"		Greater than 60	Code 1	N/A	B	S	6/13/2017	N/A	6/14/2017	165	2	0.0276	4.5540	
1712656	92124	DB	P	1/2" CTS	557	Less than or Equal to 60	Code 1	N/A	B	S	6/13/2017	N/A	6/13/2017	164	1	0.0089	1.4596	
1712661	92116	MB	PC	1 1/2"	761	Less than or Equal to 60	Code 1	N/A	B	S	6/13/2017	N/A	6/16/2017	167	4	0.0612	10.2204	
1712669	92107	MB	PC	1 1/2"	677	Less than or Equal to 60	Code 1	N/A	B	M	6/13/2017	N/A	6/13/2017	1	1	0.0612	0.0612	
1712672	92111	DB	PC	3/4"	917	Less than or Equal to 60	Code 1	N/A	B	M	6/8/2017	N/A	6/8/2017	1	1	0.0276	0.0276	
1712685	92126	MB	P	2"	557	Less than or Equal to 60	Code 1	N/A	B	M	6/13/2017	N/A	6/14/2017	2	2	0.2988	0.5976	
1712702	92111	DB	PB	3/4"	917	Less than or Equal to 60	Code 1	N/A	B	M	6/9/2017	N/A	6/9/2017	1	1	0.0276	0.0276	
1712772	92154	DB	P	1"	34	Less than or Equal to 60	Code 1	N/A	B	M	6/14/2017	N/A	6/15/2017	2	2	0.0089	0.0178	
1712787	92037	MB	PC	1 1/2"	605	Less than or Equal to 60	Code 1	N/A	B	M	6/14/2017	N/A	6/14/2017	1	1	0.0612	0.0612	
1712808	92037	DB	P	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	6/14/2017	N/A	6/15/2017	2	2	0.0089	0.0178	
1712843	91910	DB	PC	3/4"	1,050	Less than or Equal to 60	Code 1	N/A	B	M	6/15/2017	N/A	6/15/2017	1	1	0.0276	0.0276	
1712883	91910	DB	PB	3/4"	989	Less than or Equal to 60	Code 1	N/A	B	M	6/15/2017	N/A	6/16/2017	2	2	0.0276	0.0552	
1712898	92115	DB	PC	3/4"	785	Less than or Equal to 60	Code 3	N/A	B	S	6/15/2017	N/A	8/28/2017	240	75	0.0276	6.6240	
1712904	92104	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	S	6/15/2017	N/A	8/23/2017	235	70	0.0276	6.4860	
1712926	92106	DB	PC	3/4"	725	Less than or Equal to 60	Code 1	N/A	B	M	6/15/2017	N/A	6/15/2017	1	1	0.0276	0.0276	
1713006	91950	DB	PC	3/4"	641	Less than or Equal to 60	Code 1	N/A	B	M	6/9/2017	N/A	6/9/2017	1	1	0.0276	0.0276	
1713014	91910	MB	PC	2"	1,001	Less than or Equal to 60	Code 3	N/A	B	M	6/16/2017	N/A	8/29/2017	75	75	0.0612	4.5900	
1713072	92104	DB	P	1/2" CTS	522	Less than or Equal to 60	Code 1	N/A	B	S	6/19/2017	N/A	6/19/2017	170	1	0.0089	1.5130	
1713138	92104	DB	P	1/2" CTS	522	Less than or Equal to 60	Code 1	N/A	B	M	6/19/2017	N/A	6/19/2017	1	1	0.0089	0.0089	
1713144	92116	MB	P	2"	335	Less than or Equal to 60	Code 1	N/A	B	M	6/19/2017	N/A	6/20/2017	2	2	0.2988	0.5976	
1713182	92103	DB	P	1 1/4"	690	Less than or Equal to 60	Code 1	N/A	B	S	6/20/2017	N/A	6/21/2017	172	2	0.0089	1.5308	
1713218	92104	DB	P	1/2" IPS	522	Less than or Equal to 60	Code 1	N/A	B	M	6/19/2017	N/A	6/19/2017	1	1	0.0089	0.0089	
1713250	92103	DB	P	3/4"	514	Less than or Equal to 60	Code 1	N/A	B	S	6/20/2017	N/A	6/20/2017	171	1	0.0089	1.5219	
1713272	92103	DB	PB	3/4"		Less than or Equal to 60	Code 1	N/A	B	S	6/20/2017	N/A	6/21/2017	172	2	0.0276	4.7472	
1713273	92103	DB	P	1/2" CTS	537	Less than or Equal to 60	Code 1	N/A	B	S	6/20/2017	N/A	6/21/2017	172	2	0.0089	1.5308	
1713432	92104	DB	P	1/2" CTS	522	Less than or Equal to 60	Code 1	N/A	B	S	6/22/2017	N/A	6/22/2017	173	1	0.0089	1.5397	
1713501	92104	DB	P	2"		Less than or Equal to 60	Code 1	N/A	B	S	6/23/2017	N/A	6/24/2017	175	2	0.0089	1.5575	
1713662	92111	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	6/8/2017	N/A	6/8/2017	1	1	0.0276	0.0276	
1713701	92123	DB	Unknown		390	Less than or Equal to 60	Code 2	N/A	B	S	6/27/2017	N/A	7/1/2017	182	5	0.0600	10.9200	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1713717	92104	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	N/A	B	S	6/27/2017	N/A	6/27/2017	178	1	0.0089	1.5842	
1713734	92104	MB	P	2"	1,135	Less than or Equal to 60	Code 2	N/A	B	S	6/27/2017	N/A	8/26/2017	238	61	0.2988	71.1144	
1713759	92116	DB	P	1/2" CTS	36	Less than or Equal to 60	Code 1	N/A	B	S	6/27/2017	N/A	6/27/2017	178	1	0.0089	1.5842	
1713791	92104	DB	PC	3/4"	678	Less than or Equal to 60	Code 2	N/A	B	S	6/28/2017	N/A	8/21/2017	233	55	0.0276	6.4308	
1713900	92008	DB	PC	1"	198	Less than or Equal to 60	Code 1	N/A	B	M	6/28/2017	N/A	6/28/2017	1	1	0.0276	0.0276	
1713906	92123	MB	PB	2"	414	Less than or Equal to 60	Code 1	N/A	B	S	6/28/2017	N/A	6/29/2017	180	2	0.0612	11.0160	
1713913	92054	MB	PC	1 1/4"	810	Less than or Equal to 60	Code 1	N/A	B	M	6/28/2017	N/A	6/28/2017	1	1	0.0612	0.0612	
1713919	92037	DB	PB	3/4"	48	Less than or Equal to 60	Code 1	N/A	B	M	6/28/2017	N/A	6/28/2017	1	1	0.0276	0.0276	
1713920	91910	DB	P	1 1/4"		Less than or Equal to 60	Code 1	N/A	B	M	6/28/2017	N/A	6/28/2017	1	1	0.0089	0.0089	
1713932	92106	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	6/29/2017	N/A	6/29/2017	1	1	0.0276	0.0276	
1713966	92014	MB	PC	1 1/2"	630	Less than or Equal to 60	Code 1	N/A	B	S	6/29/2017	N/A	6/29/2017	180	1	0.0612	11.0160	
1713976	92104	DB	P	1/2" CTS	9	Less than or Equal to 60	Code 1	N/A	B	S	6/29/2017	N/A	6/29/2017	180	1	0.0089	1.6020	
1713998	92104	DB	P	1"		Less than or Equal to 60	Code 2	N/A	B	S	6/29/2017	N/A	8/29/2017	241	62	0.0089	2.1449	
1714026	92111	DB	PC	3/4"	918	Less than or Equal to 60	Code 1	N/A	B	M	6/29/2017	N/A	6/29/2017	1	1	0.0276	0.0276	
1714029	92103	DB	PC	1 1/2"	650	Less than or Equal to 60	Code 1	N/A	B	S	6/29/2017	N/A	6/29/2017	180	1	0.0276	4.9680	
1714032	92104	DB	PC	3/4"	330	Less than or Equal to 60	Code 1	N/A	B	M	6/29/2017	N/A	6/29/2017	1	1	0.0276	0.0276	
1714098	92081	MB	PC	4"	390	Less than or Equal to 60	Code 1	N/A	B	M	7/2/2017	N/A	7/3/2017	2	2	0.0612	0.1224	
1714176	92014	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	7/3/2017	N/A	7/4/2017	2	2	0.0276	0.0552	
1714179	92014	DB	PC	3/4"	786	Less than or Equal to 60	Code 1	N/A	B	M	7/4/2017	N/A	7/4/2017	1	1	0.0276	0.0276	
1714185	92014	MB	PC	1 1/2"	762	Less than or Equal to 60	Code 1	N/A	B	M	7/4/2017	N/A	7/4/2017	1	1	0.0612	0.0612	
1714276	92020	DB	PC	3/4"	426	Less than or Equal to 60	Code 1	N/A	B	M	7/5/2017	N/A	7/5/2017	1	1	0.0276	0.0276	
1714378	92024	MB	PC	1 1/2"	858	Less than or Equal to 60	Code 1	N/A	B	M	7/6/2017	N/A	7/7/2017	2	2	0.0612	0.1224	
1714454	92104	DB	PC	3/4"	750	Less than or Equal to 60	Code 2	N/A	B	S	7/7/2017	N/A	8/27/2017	239	52	0.0276	6.5964	
1714468	92024	MB	PB	4"	558	Less than or Equal to 60	Code 1	N/A	B	M	7/7/2017	N/A	7/7/2017	1	1	0.0612	0.0612	
1714472	92027	DB	P	1/2" CTS	462	Less than or Equal to 60	Code 1	N/A	B	M	7/8/2017	N/A	7/8/2017	1	1	0.0089	0.0089	
1714484	92020	DB	PC	3/4"	570	Less than or Equal to 60	Code 2	N/A	B	S	7/9/2017	N/A	8/16/2017	228	39	0.0276	6.2928	
1714523	92083	MB	P	3"	582	Less than or Equal to 60	Code 2	N/A	B	M	7/10/2017	N/A	8/21/2017	43	43	0.2988	12.8484	
1714665	92071	DB	PC	3/4"	690	Less than or Equal to 60	Code 1	N/A	B	S	7/11/2017	N/A	7/12/2017	193	2	0.0276	5.3268	
1714719	92110	DB	PC	3/4"	750	Less than or Equal to 60	Code 1	N/A	B	M	7/12/2017	N/A	7/13/2017	2	2	0.0276	0.0552	
1714857	92007	MB	PC	1"	870	Less than or Equal to 60	Code 1	N/A	B	M	7/13/2017	N/A	7/14/2017	2	2	0.0612	0.1224	
1714897	92105	DB	PC	3/4"	858	Less than or Equal to 60	Code 1	N/A	B	M	7/13/2017	N/A	7/14/2017	2	2	0.0276	0.0552	
1714939	92103	DB	PC	3/4"	502	Less than or Equal to 60	Code 1	N/A	B	S	7/14/2017	N/A	7/14/2017	195	1	0.0276	5.3820	
1714967	92105	MB	PC	1 1/2"	894	Less than or Equal to 60	Code 3	N/A	B	S	7/15/2017	N/A	8/27/2017	239	44	0.0612	14.6268	
1715047	92103	DB	PC	1 1/2"	530	Less than or Equal to 60	Code 1	N/A	B	S	7/17/2017	N/A	7/17/2017	198	1	0.0276	5.4648	
1715061	92103	DB	P	1/2" CTS	414	Less than or Equal to 60	Code 2	N/A	B	S	7/17/2017	N/A	8/25/2017	237	40	0.0089	2.1093	
1715096	92105	DB	PC	3/4"	127	Less than or Equal to 60	Code 1	N/A	B	M	7/18/2017	N/A	7/18/2017	1	1	0.0276	0.0276	
1715185	91932	DB	PC	3/4"	799	Less than or Equal to 60	Code 1	N/A	B	M	7/18/2017	N/A	7/18/2017	1	1	0.0276	0.0276	
1715286	91950	DB	PC	3/4"	823	Less than or Equal to 60	Code 1	N/A	B	M	7/19/2017	N/A	7/20/2017	2	2	0.0276	0.0552	
1715289	92024	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	M	7/19/2017	N/A	7/27/2017	9	9	0.0276	0.2484	
1715344	92064	MB	P	3"	499	Less than or Equal to 60	Code 1	N/A	B	M	7/20/2017	N/A	7/21/2017	2	2	0.2988	0.5976	
1715404	92024	DB	PC	3/4"	1,037	Less than or Equal to 60	Code 1	N/A	B	M	7/20/2017	N/A	7/21/2017	2	2	0.0276	0.0552	
1715471	92106	MB	PC	4"	1,003	Less than or Equal to 60	Code 1	N/A	B	M	7/20/2017	N/A	7/21/2017	2	2	0.0612	0.1224	
1715493	92107	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	7/11/2017	N/A	7/11/2017	1	1	0.0276	0.0276	
1715522	92057	MB	PC	1 1/2"	583	Less than or Equal to 60	Code 1	N/A	B	M	7/21/2017	N/A	7/21/2017	1	1	0.0612	0.0612	
1715523	92027	MB	P	2"	547	Less than or Equal to 60	Code 1	N/A	B	M	7/21/2017	N/A	7/22/2017	2	2	0.2988	0.5976	
1715546	92126	MB	P	3"	571	Less than or Equal to 60	Code 1	N/A	B	M	7/23/2017	N/A	7/24/2017	2	2	0.2988	0.5976	
1715549	92119	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	7/23/2017	N/A	7/25/2017	3	3	0.0276	0.0828	
1715644	92106	MB	PC	1 1/2"	751	Less than or Equal to 60	Code 1	N/A	B	M	7/24/2017	N/A	7/25/2017	2	2	0.0612	0.1224	
1715674	92131	MB	P	1 1/4"	451	Less than or Equal to 60	Code 1	N/A	B	M	7/24/2017	N/A	7/25/2017	2	2	0.2988	0.5976	
1715677	92103	DB	PC	3/4"	1,027	Less than or Equal to 60	Code 1	N/A	B	M	7/24/2017	N/A	7/25/2017	2	2	0.0276	0.0552	
1715824	92117	DB	P	1/2" CTS	511	Less than or Equal to 60	Code 1	N/A	B	M	7/25/2017	N/A	7/25/2017	1	1	0.0089	0.0089	
1715825	92113	DB	PC	1"		Less than or Equal to 60	Code 1	N/A	B	M	7/25/2017	N/A	7/25/2017	1	1	0.0276	0.0276	
1715960	92116	MB	PC	1 1/2"	679	Less than or Equal to 60	Code 1	N/A	B	M	7/26/2017	N/A	7/27/2017	2	2	0.0612	0.1224	
1716083	91911	MB	PC	1 1/2"	739	Less than or Equal to 60	Code 1	N/A	B	M	7/27/2017	N/A	7/28/2017	3	3	0.0612	0.1836	
1716345	92136	DB	PC	3/4"	775	Less than or Equal to 60	Code 1	N/A	B	M	8/1/2017	N/A	8/1/2017	1	1	0.0276	0.0276	
1716436	91913	MB	P	2"	8	Less than or Equal to 60	Code 1	N/A	B	M	8/1/2017	N/A	8/1/2017	1	1	0.2988	0.2988	
1716498	92014	MB	P	1 1/4"	535	Less than or Equal to 60	Code 1	N/A	B	M	8/2/2017	N/A	8/2/2017	1	1	0.2988	0.2988	
1716512	92110	MB	PC	1 1/2"	607	Less than or Equal to 60	Code 1	N/A	B	M	8/2/2017	N/A	8/3/2017	2	2	0.0612	0.1224	
1716596	92009	MB	P	2"	130	Less than or Equal to 60	Code 1	N/A	B	M	8/3/2017	N/A	8/3/2017	1	1	0.2988	0.2988	
1716601	92114	DB	PC	3/4"	1,070	Less than or Equal to 60	Code 1	N/A	B	M	8/3/2017	N/A	8/3/2017	1	1	0.0276	0.0276	
1716949	92091	MB	P	2"	547	Less than or Equal to 60	Code 1	N/A	B	S	8/9/2017	N/A	8/10/2017	222	2	0.2988	66.3336	
1717000	92024	MB	P	3"	451	Less than or Equal to 60	Code 2	N/A	B	S	8/10/2017	N/A	10/16/2017	289	68	0.2988	86.3532	
1717044	92020	DB	PC	3/4"	847	Less than or Equal to 60	Code 2	N/A	B	M	8/10/2017	N/A	8/11/2017	2	2	0.0276	0.0552	
1717107	92114	DB	P	1/2" IPS	475	Less than or Equal to 60	Code 1	N/A	B	M	8/10/2017	N/A	8/11/2017	2	2	0.0089	0.0178	
1717197	92083	MB	P	3"	427	Less than or Equal to 60	Code 1	N/A	B	M	8/11/2017	N/A	8/11/2017	1	1	0.2988	0.2988	
1717269	92069	DB	PC	3/4"	631	Less than or Equal to 60	Code 1	N/A	B	S	8/14/2017	N/A	8/14/2017	226	1	0.0276	6.2376	
1717317	91977	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	8/14/2017	N/A	8/14/2017	1	1	0.0276	0.0276	
1717444	92154	DB	PC	3/4"	571	Less than or Equal to 60	Code 1	N/A	B	M	8/15/2017	N/A	8/16/2017	2	2	0.0276	0.0552	
1717484	92024	DB	P	1 1/4"	523	Less than or Equal to 60	Code 2	N/A	B	S	8/16/2017	N/A	8/28/2017	240	13	0.0089	2.1360	
1717498	92024	DB	PC	3/4"	775	Less than or Equal to 60	Code 2	N/A	B	S	8/16/2017	N/A	11/3/2017	307	80	0.0276	8.4732	
1717526	92101	DB	P	1"	463	Less than or Equal to 60	Code 1	N/A	B	M	8/16/2017	N/A	8/16/2017	1	1	0.0089	0.0089	
1717534	92173	DB	PC	3/4"	571	Less than or Equal to 60	Code 1	N/A	B	M	8/16/2017	N/A	8/16/2017	1	1	0.0276	0.0276	
1717746	92037	MB	PC	1 1/2"	86	Less than or Equal to 60	Code 1	N/A	B	M	8/18/2017	N/A	8/19/2017	2	2	0.0612	0.1224	
1717864	92014	DB	PC	3/4"	572	Less than or Equal to 60	Code 1	N/A	B	M	8/21/2017	N/A	8/21/2017	1	1	0.0276	0.0276	
1717873	92103	DB	P	1/2" CTS	212	Less than or Equal to 60	Code 1	N/A	B	M	8/21/2017	N/A	8/21/2017	1	1	0.0089	0.0089	
1717970	92008	MB	P	2"	392	Less than or Equal to 60	Code 1	N/A	B	M	8/22/2017	N/A	8/22/2017	1	1	0.2988	0.2988	
1718119	92029	MB	P	2"	440	Less than or Equal to 60	Code 2	N/A	B	S	8/24/2017	N/A	10/16/2017	289	54	0.2988	86.3532	

1718146	92128	DB	P	1/2" CTS	536	Less than or Equal to 60	Code 2	N/A	B	M	8/24/2017	N/A	8/24/2017	1	1	0.0089	0.0089
1718202	92057	MB	P	2"	656	Less than or Equal to 60	Code 2	N/A	B	M	8/24/2017	N/A	11/16/2017	85	85	0.2988	25.3980
1718424	92103	DB	P	1 1/4"	532	Less than or Equal to 60	Code 2	N/A	B	M	8/28/2017	N/A	9/1/2017	5	5	0.0089	0.0445
1718427	92037	MB	PC	2"	548	Less than or Equal to 60	Code 2	N/A	B	M	8/29/2017	N/A	9/1/2017	4	4	0.0612	0.2448
1718428	92106	MB	PC	1 1/2"		Less than or Equal to 60	Code 1	N/A	B	M	8/29/2017	N/A	8/29/2017	1	1	0.0612	0.0612
1718534	92037	DB	PC	3/4"	1,081	Less than or Equal to 60	Code 1	N/A	B	M	8/29/2017	N/A	8/29/2017	1	1	0.0276	0.0276
1718555	92104	DB	P	1/2" IPS	11	Less than or Equal to 60	Code 1	N/A	B	M	8/28/2017	N/A	8/28/2017	1	1	0.0089	0.0089
1718634	92110	DB	PC	3/4"	872	Less than or Equal to 60	Code 1	N/A	B	M	8/30/2017	N/A	8/31/2017	2	2	0.0276	0.0552
1722471	92083	DB	P			Less than or Equal to 60	Code 1	N/A	B	S	10/16/2017	N/A	10/16/2017	289	1	0.0089	2.5721
1720187	92069	DB	P	1"		Less than or Equal to 60	Code 1	N/A	B	M	9/20/2017	N/A	9/20/2017	1	1	0.0089	0.0089
1718767	92105	MB	PC	1 1/2"	800	Less than or Equal to 60	Code 2	N/A	B	M	9/1/2017	N/A	10/27/2017	57	57	0.0612	3.4884
1718787	92024	DB	P	1/2" CTS	824	Less than or Equal to 60	Code 1	N/A	B	M	9/1/2017	N/A	9/1/2017	1	1	0.0089	0.0089
1718999	92105	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	9/5/2017	N/A	9/5/2017	1	1	0.0276	0.0276
1719099	91910	DB	PC	3/4"	800	Less than or Equal to 60	Code 1	N/A	B	M	9/6/2017	N/A	9/6/2017	1	1	0.0276	0.0276
1719104	91942	DB	P	1/2" CTS	308	Less than or Equal to 60	Code 1	N/A	B	M	9/6/2017	N/A	9/6/2017	1	1	0.0089	0.0089
1719107	92102	DB	PC	3/4"	776	Less than or Equal to 60	Code 1	N/A	B	M	9/6/2017	N/A	9/6/2017	1	1	0.0276	0.0276
1719114	92009	DB	P	3/4"	107	Less than or Equal to 60	Code 2	N/A	B	M	9/6/2017	N/A	9/6/2017	1	1	0.0089	0.0089
1719167	92009	DB	P			Less than or Equal to 60	Code 1	N/A	B	S	9/7/2017	N/A	9/7/2017	250	1	0.0089	2.2250
1719211	92103	DB	PC	1 1/4"	896	Less than or Equal to 60	Code 1	N/A	B	M	9/7/2017	N/A	9/8/2017	2	2	0.0276	0.0552
1719212	92113	DB	PC	1 1/4"	776	Less than or Equal to 60	Code 1	N/A	B	M	9/7/2017	N/A	9/7/2017	1	1	0.0276	0.0276
1719214	92114	MB	PC	2"	800	Less than or Equal to 60	Code 1	N/A	B	M	9/8/2017	N/A	9/8/2017	1	1	0.0612	0.0612
1719238	92113	DB	PC	3/4"	908	Less than or Equal to 60	Code 2	N/A	B	M	9/8/2017	N/A	9/8/2017	1	1	0.0276	0.0276
1719267	92113	DB	PB	3/4"	82	Less than or Equal to 60	Code 1	N/A	B	M	9/8/2017	N/A	9/8/2017	1	1	0.0276	0.0276
1719307	92037	DB	PC	3/4"	752	Less than or Equal to 60	Code 1	N/A	B	M	9/8/2017	N/A	9/8/2017	1	1	0.0276	0.0276
1719331	92115	DB	PC	3/4"	620	Less than or Equal to 60	Code 1	N/A	B	M	9/11/2017	N/A	9/11/2017	1	1	0.0276	0.0276
1719405	92014	MB	PC	1 1/2"	968	Less than or Equal to 60	Code 3	N/A	B	M	9/11/2017	N/A	10/9/2017	29	29	0.0612	1.7748
1719431	92037	MB	PC	2"	1,086	Less than or Equal to 60	Code 1	N/A	B	M	9/12/2017	N/A	9/14/2017	3	3	0.0612	0.1836
1719539	92115	DB	PB	3/4"	848	Less than or Equal to 60	Code 1	N/A	B	M	9/12/2017	N/A	9/12/2017	1	1	0.0276	0.0276
1719579	92115	DB	PC	3/4"	872	Less than or Equal to 60	Code 1	N/A	B	M	9/13/2017	N/A	9/13/2017	1	1	0.0276	0.0276
1719610	92120	DB	PB	3/4"	680	Less than or Equal to 60	Code 1	N/A	B	M	9/13/2017	N/A	9/13/2017	1	1	0.0276	0.0276
1719733	92111	MB	P	2"	416	Less than or Equal to 60	Code 1	N/A	B	M	9/14/2017	N/A	9/14/2017	1	1	0.2988	0.2988
1719969	92024	DB	PC	3/4"	92	Less than or Equal to 60	Code 1	N/A	B	S	9/19/2017	N/A	9/19/2017	262	1	0.0276	7.2312
1720096	92124	MB	P	3"	561	Less than or Equal to 60	Code 1	N/A	B	M	9/17/2017	N/A	9/18/2017	2	2	0.2988	0.5976
1720106	92009	DB	P	2"		Less than or Equal to 60	Code 1	N/A	B	S	9/20/2017	N/A	9/20/2017	263	1	0.0089	2.3407
1718708	92130	DB	P			Less than or Equal to 60	Code 2	N/A	B	M	8/31/2017	N/A	8/31/2017	1	1	0.0089	0.0089
1720283	92104	MB	PC	6"	1,138	Less than or Equal to 60	Code 1	N/A	B	M	9/21/2017	N/A	9/21/2017	1	1	0.0612	0.0612
1720605	92009	DB	P	1 1/4"	573	Less than or Equal to 60	Code 1	N/A	B	S	9/26/2017	N/A	9/26/2017	269	1	0.0089	2.3941
1721025	92105	MB	PC	1 1/2"	765	Less than or Equal to 60	Code 1	N/A	B	M	9/28/2017	N/A	9/29/2017	2	2	0.0612	0.1224
1721154	92115	DB	PC	3/4"	813	Less than or Equal to 60	Code 1	N/A	B	M	9/29/2017	N/A	9/30/2017	2	2	0.0276	0.0552
1721173	92113	DB	PC	3/4"	1,140	Less than or Equal to 60	Code 1	N/A	B	M	10/1/2017	N/A	10/1/2017	1	1	0.0276	0.0276
1721182	92075	DB	PC	3/4"	81	Less than or Equal to 60	Code 1	N/A	B	M	10/1/2017	N/A	10/2/2017	2	2	0.0276	0.0552
1721207	91950	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	10/2/2017	N/A	10/2/2017	1	1	0.0276	0.0276
1721613	92119	DB	PC	3/4"	657	Less than or Equal to 60	Code 1	N/A	B	M	10/5/2017	N/A	10/5/2017	1	1	0.0276	0.0276
1721646	92110	MB	PC	1 1/2"	741	Less than or Equal to 60	Code 1	N/A	B	M	10/5/2017	N/A	10/5/2017	1	1	0.0612	0.0612
1721794	92116	DB	PC	3/4"	429	Less than or Equal to 60	Code 2	N/A	B	M	10/7/2017	N/A	11/27/2017	52	52	0.0276	1.4352
1721809	92154	MB	P	3"	489	Less than or Equal to 60	Code 1	N/A	B	M	10/8/2017	N/A	10/8/2017	1	1	0.2988	0.2988
1721959	92007	DB	PC	3/4"	753	Less than or Equal to 60	Code 1	N/A	B	M	10/9/2017	N/A	10/9/2017	1	1	0.0276	0.0276
1722362	92081	DB	PC	3/4"	621	Less than or Equal to 60	Code 2	N/A	B	S	10/13/2017	N/A	11/14/2017	318	33	0.0276	8.7768
1722430	92037	MB	PC	3"	561	Less than or Equal to 60	Code 1	N/A	B	M	10/14/2017	N/A	10/15/2017	2	2	0.0612	0.1224
1722432	92037	DB	PC			Less than or Equal to 60	Code 1	N/A	B	M	10/15/2017	N/A	10/15/2017	1	1	0.0276	0.0276
1722436	92037	DB	P	1 1/4"	517	Less than or Equal to 60	Code 1	N/A	B	M	10/14/2017	N/A	10/15/2017	2	2	0.0089	0.0178
1718697	92075	DB	P	1"		Less than or Equal to 60	Code 2	N/A	B	M	8/31/2017	N/A	8/31/2017	1	1	0.0089	0.0089
1722573	92069	DB	P	1/2" CTS	561	Less than or Equal to 60	Code 1	N/A	B	M	10/16/2017	N/A	10/16/2017	1	1	0.0089	0.0089
1722574	92124	MB	P	2"	561	Less than or Equal to 60	Code 1	N/A	B	M	10/16/2017	N/A	10/17/2017	2	2	0.2988	0.5976
1722745	92114	MB	P	2"	466	Less than or Equal to 60	Code 1	N/A	B	M	10/18/2017	N/A	10/18/2017	1	1	0.2988	0.2988
1722825	92128	MB	P	1 1/4"	464	Less than or Equal to 60	Code 1	N/A	B	M	10/18/2017	N/A	10/18/2017	1	1	0.2988	0.2988
1722855	92104	DB	P	1"	346	Less than or Equal to 60	Code 3	N/A	B	M	10/19/2017	N/A	11/7/2017	20	20	0.0089	0.1780
1722950	92105	DB	PC	3/4"	838	Less than or Equal to 60	Code 1	N/A	B	M	10/18/2017	N/A	10/19/2017	2	2	0.0276	0.0552
1722966	92105	MB	PC	3"	778	Less than or Equal to 60	Code 1	N/A	B	M	10/19/2017	N/A	10/20/2017	2	2	0.0612	0.1224
1722967	91932	MB	PC	2"	778	Less than or Equal to 60	Code 1	N/A	B	M	10/19/2017	N/A	10/20/2017	2	2	0.0612	0.1224
1722992	92054	DB	PC	3/4"	694	Less than or Equal to 60	Code 1	N/A	B	M	10/20/2017	N/A	10/20/2017	1	1	0.0276	0.0276
1723067	92083	MB	P	3"	622	Less than or Equal to 60	Code 1	N/A	B	M	10/21/2017	N/A	10/22/2017	2	2	0.2988	0.5976
1723274	92104	DB	P	1/2" CTS	526	Less than or Equal to 60	Code 1	N/A	B	M	10/24/2017	N/A	10/24/2017	1	1	0.0089	0.0089
1723309	92111	DB	PC	3/4"	922	Less than or Equal to 60	Code 1	N/A	B	M	10/24/2017	N/A	10/24/2017	1	1	0.0276	0.0276
1723322	91911	MB	PC	1"	1,042	Less than or Equal to 60	Code 1	N/A	B	M	10/24/2017	N/A	10/25/2017	2	2	0.0612	0.1224
1723448	92105	DB	PB			Less than or Equal to 60	Code 1	N/A	B	M	10/26/2017	N/A	10/26/2017	1	1	0.0276	0.0276
1723450	92075	DB	PC	3/4"	658	Less than or Equal to 60	Code 1	N/A	B	M	10/25/2017	N/A	10/25/2017	1	1	0.0276	0.0276
1723500	92084	MB	P	2"	561	Less than or Equal to 60	Code 1	N/A	B	M	10/26/2017	N/A	10/27/2017	2	2	0.2988	0.5976
1723506	92081	MB	P	1 1/4"	497	Less than or Equal to 60	Code 1	N/A	B	S	10/26/2017	N/A	10/27/2017	300	2	0.2988	89.6400
1723628	91941	MB	PB	2"	802	Less than or Equal to 60	Code 2	N/A	B	M	10/27/2017	N/A	11/14/2017	19	19	0.0612	1.1628
1723637	92083	MB	PC	2"	670	Less than or Equal to 60	Code 1	N/A	B	S	10/27/2017	N/A	10/27/2017	300	1	0.0612	18.3600
1723749	92071	DB	P	1/2" CTS	538	Less than or Equal to 60	Code 1	N/A	B	M	10/29/2017	N/A	10/29/2017	1	1	0.0089	0.0089
1723818	92054	DB	P	1/2" CTS	550	Less than or Equal to 60	Code 1	N/A	B	S	10/30/2017	N/A	10/30/2017	303	1	0.0089	2.6967
1723888	92008	MB	PC	1 1/2"	802	Less than or Equal to 60	Code 1	N/A	B	M	10/31/2017	N/A	10/31/2017	1	1	0.0612	0.0612
1723921	92054	MB	P	2"	526	Less than or Equal to 60	Code 1	N/A	B	S	10/31/2017	N/A	11/1/2017	305	2	0.2988	91.1340
1723949	92083	DB	PC	3/4"	706	Less than or Equal to 60	Code 1	N/A	B	M	10/31/2017	N/A	11/1/2017	2	2	0.0276	0.0552
1724013	92014	DB	PC	3/4"	1,042	Less than or Equal to 60	Code 1	N/A	B	M	11/1/2017	N/A	11/2/2017	2	2	0.0276	0.0552
1724043	92014	MB	PC	1 1/2"	766	Less than or Equal to 60	Code 1	N/A	B	M	11/1/2017	N/A	11/2/2017	2	2	0.0612	0.1224
1724051	92083	MB	P	2"	694	Less than or Equal to 60	Code 1	N/A	B	S	11/2/2017	N/A	11/2/2017	306	1	0.2988	91.4328
1724055	92054	DB	P	1 1/4"	670	Less than or Equal to 60	Code 1	N/A	B	S	11/2/2017	N/A	11/4/2017	308	3	0.0089	2.7412
1724106	92104	DB	PC	3/4"	412	Less than or Equal to 60	Code 1	N/A	B	M	11/2/2017	N/A	11/2/2017	1	1	0.0276	0.0276
1724148	92028	DB	P	1/2" CTS	502	Less than or Equal to 60	Code 1	N/A	B	M	11/3/2017	N/A	11/3/2017	1	1	0.0089	0.0089
1724152	92120	MB	PC	2"		Less than or Equal to 60	Code 1	N/A	B	M	11/3/2017	N/A	11/3/2017	1	1	0.0612	0.0612
1724160	91977	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	11/3/2017	N/A	11/3/2017	1	1	0.0276	0.0276
1724199	92009	DB	P	1"		Less than or Equal to 60	Code 1	N/A	B	M	11/4/2017	N/A	11/4/2017	1	1	0.0089	0.0089
1724213	92102	DB	PC	3/4"	910	Less than or Equal to 60	Code 1	N/A	B	M	11/5/2017	N/A	11/5/2017	1	1	0.0276	0.0276
1724217	91950	DB	PC	3/4"	682	Less than or Equal to 60	Code 1	N/A	B	M	11/3/2017	N/A	11/4/2017	2	2	0.0276	0.0552
1724277	92054	MB	PC	2"	670	Less than or Equal to 60	Code 2	N/A	B	S	11/6/2017	N/A	11/29/2017	333	24	0.0612	20.3796
1724359	92057	DB	PC	3/4"	586	Less than or Equal to 60	Code 1	N/A	B	S	11/7/2017	N/A	11/7/2017	311	1	0.0276	8.5836
1724383	92057	DB	PC	3/4"	586	Less than or Equal to 60	Code 1	N/A	B	S	11/7/2017	N/A	11/8/2017	312	2	0.0276	8.6112
1724395	92116	MB	PC	1 1/2"	934	Less than or Equal to 60	Code 3	N/A	B	M	11/7/2017	N/A	11/28/2017	22	22	0.0612	1.3464
1711015	92111	DB	P			Less than or Equal to 60	Code 1	N/A	B	S	5/22/2017	N/A	5/22/2017	142	1	0.0089	1.2638
1724537	92104	DB	PC	3/4"	1,050	Less than or Equal to 60	Code 1	N/A	B	M	11/9/2017	N/A	11/9/2017	1	1	0.0276	0.0276
1724539	92128	MB	P	1 1/4"	80	Less than or Equal to 60	Code 1	N/A	B	M	11/9/2017	N/A	11/10/2017	2	2	0.2988	0.5976
1724552	92057	MB	PC	3"	598	Less than or Equal to 60	Code 1	N/A	B	S	11/10/2017	N/A	11/10/2017	314	1	0.0612	19.2168
1724574	91950	DB	PC	3/4"	1,042	Less than or Equal to 60	Code 1	N/A	B	M	11/9/2017	N/A	11/10/2017	2	2	0.0276	0.0552
1724603	92057	MB	PB	1 1/2"	610	Greater than 60	Code 2	N/A	B	S	11/10/2017	N/A	12/18/2017	352	39	0.0612	21.5424
1724605	92116	DB	PC	3/4"	838	Less than or Equal to 60	Code 1	N/A	B	M	11/11/2017	N/A	11/11/2017	1	1	0.0276	0.0276
1724613	92117	MB	PC	2"	778	Less than or Equal to 60	Code 1	N/A	B	M	11/11/2017	N/A	11/11/2017	1	1	0.0612	0.0612
1724615	92057	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	11/10/2017	N/A	11/10/2017	1	1	0.0276	0.0276
1724625	92069	DB	PC	3/4"	646	Less than or Equal to 60	Code 2	N/A	B	M	11/11/2017	N/A	11/14/2017	4	4	0.0276	0.1104
1724677	92009	DB	PC	3/4"	610	Less than or Equal to 60	Code 1	N/A	B	M	11/13/2017	N/A	11/13/2017	1	1	0.0276	0.0276
1724686	91932	MB	PC	1 1/2"	802	Greater than 60	Code 1	N/A	B	M	11/12/2017	N/A	11/13/2017	2	2	0.0612	0.1224
1724691	92117	DB	PC	3/4"	706	Less than or Equal to 60	Code 1	N/A	B	M	11/13/2017	N/A	11/13/2017	1	1	0.0276	0.0276
1724695	92154	DB	PC	3/4"	574	Less than or Equal to 60	Code 1	N/A	B	M	11/13/2017	N/A	11/13/2017	1	1	0.0276	0.0276
1724697	91941	MB	PC	1 1/4"	802	Less than or Equal to 60	Code 1	N/A	B	M	11/13/2017	N/A	11/13/2017	1	1	0.0612	0.0612
1724747	92109	MB	PC	4"	322	Less than or Equal to 60	Code 1	N/A	B	M	11/14/2017	N/A	11/14/2017	1	1	0.0612	0.0612

1724771	92069	DB	PC	3/4"	766	Less than or Equal to 60	Code 1	N/A	B	S	11/14/2017	N/A	11/14/2017	318	1	0.0276	8.7768	
1724815	92037	DB	PC	3/4"	742	Less than or Equal to 60	Code 1	N/A	B	M	11/14/2017	N/A	11/15/2017	2	2	0.0276	0.0552	
1724818	92014	DB	PB	3/4"	754	Less than or Equal to 60	Code 1	N/A	B	M	11/14/2017	N/A	11/14/2017	1	1	0.0276	0.0276	
1724826	92056	DB	P	1/2" CTS	466	Less than or Equal to 60	Code 1	N/A	B	M	11/14/2017	N/A	11/14/2017	1	1	0.0089	0.0089	
1724831	92037	MB	PB	1 1/2"		Greater than 60	Code 1	N/A	B	M	11/14/2017	N/A	11/14/2017	1	1	0.0612	0.0612	
1724833	92019	MB	P	2"	550	Less than or Equal to 60	Code 1	N/A	B	M	11/14/2017	N/A	11/15/2017	2	2	0.2988	0.5976	
1724835	92139	DB	PC	3/4"	754	Less than or Equal to 60	Code 1	N/A	B	M	11/14/2017	N/A	11/15/2017	2	2	0.0276	0.0552	
1724849	91910	DB	PC	3/4"	778	Less than or Equal to 60	Code 1	N/A	B	M	11/15/2017	N/A	11/15/2017	1	1	0.0276	0.0276	
1724882	92126	MB	PC	2"	574	Less than or Equal to 60	Code 1	N/A	B	M	11/15/2017	N/A	11/15/2017	1	1	0.0612	0.0612	
1724908	92116	MB	P	2"	512	Less than or Equal to 60	Code 1	N/A	B	M	11/15/2017	N/A	11/15/2017	1	1	0.2988	0.2988	
1724929	92037	DB	PC	1 1/2"	562	Less than or Equal to 60	Code 1	N/A	B	M	11/15/2017	N/A	11/16/2017	2	2	0.0276	0.0552	
1724966	92105	DB	P	1/2" CTS	16	Less than or Equal to 60	Code 1	N/A	B	M	11/16/2017	N/A	11/16/2017	1	1	0.0089	0.0089	
1724969	92116	MB	PB	3"	958	Less than or Equal to 60	Code 1	N/A	B	M	11/16/2017	N/A	11/16/2017	1	1	0.0612	0.0612	
1724980	91945	DB	PB	3/4"	826	Less than or Equal to 60	Code 1	N/A	B	M	11/16/2017	N/A	11/16/2017	1	1	0.0276	0.0276	
1725005	92037	DB	P	1/2" IPS	179	Less than or Equal to 60	Code 1	N/A	B	M	11/17/2017	N/A	11/17/2017	1	1	0.0089	0.0089	
1725008	92117	DB	PC	3/4"	743	Less than or Equal to 60	Code 1	N/A	B	M	11/16/2017	N/A	11/16/2017	1	1	0.0276	0.0276	
1725009	92114	MB	PC	1 1/2"	971	Less than or Equal to 60	Code 1	N/A	B	M	11/17/2017	N/A	11/17/2017	1	1	0.0612	0.0612	
1725010	91932	MB	PC	1"	802	Less than or Equal to 60	Code 1	N/A	B	M	11/16/2017	N/A	11/17/2017	2	2	0.0612	0.1224	
1725032	92109	MB	PC	1 1/2"		Less than or Equal to 60	Code 1	N/A	B	M	11/17/2017	N/A	11/17/2017	1	1	0.0612	0.0612	
1725036	92019	MB	P	3"	430	Less than or Equal to 60	Code 1	N/A	B	M	11/16/2017	N/A	11/17/2017	2	2	0.2988	0.5976	
1725050	92057	DB	PB	3/4"	623	Greater than 60	Code 1	N/A	B	S	11/17/2017	N/A	11/17/2017	321	1	0.0276	8.8596	
1725051	92114	DB	PC	3/4"	778	Less than or Equal to 60	Code 1	N/A	B	M	11/16/2017	N/A	11/17/2017	2	2	0.0276	0.0552	
1725078	92105	DB	PC	3/4"	671	Less than or Equal to 60	Code 1	N/A	B	M	11/17/2017	N/A	11/17/2017	1	1	0.0276	0.0276	
1725090	92121	DB	PC	3/4"	455	Less than or Equal to 60	Code 1	N/A	B	M	11/17/2017	N/A	11/17/2017	1	1	0.0276	0.0276	
1725099	91941	DB	PC	3/4"		Less than or Equal to 60	Code 2	N/A	B	M	11/18/2017	N/A	11/25/2017	8	8	0.0276	0.2208	
1725103	91945	DB	PC	3/4"	731	Less than or Equal to 60	Code 1	N/A	B	M	11/18/2017	N/A	11/18/2017	1	1	0.0276	0.0276	
1725104	92057	MB	PC	1 1/2"	587	Less than or Equal to 60	Code 1	N/A	B	M	11/17/2017	N/A	11/18/2017	2	2	0.0612	0.1224	
1725105	91902	DB	PB	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	11/18/2017	N/A	11/18/2017	1	1	0.0276	0.0276	
1725124	92115	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	11/19/2017	N/A	11/19/2017	1	1	0.0276	0.0276	
1725125	92124	MB	P	2"	479	Less than or Equal to 60	Code 1	N/A	B	M	11/19/2017	N/A	11/20/2017	2	2	0.2988	0.5976	
1725181	91910	DB	PC	3/4"	695	Less than or Equal to 60	Code 1	N/A	B	M	11/20/2017	N/A	11/20/2017	1	1	0.0276	0.0276	
1725210	92115	DB	PC	3/4"	755	Less than or Equal to 60	Code 1	N/A	B	M	11/20/2017	N/A	11/21/2017	2	2	0.0276	0.0552	
1725213	92008	MB	PC	2"	791	Less than or Equal to 60	Code 1	N/A	B	M	11/20/2017	N/A	11/20/2017	1	1	0.0612	0.0612	
1725214	92107	MB	PC	1 1/2"	935	Less than or Equal to 60	Code 1	N/A	B	M	11/20/2017	N/A	11/21/2017	2	2	0.0612	0.1224	
1725218	92154	DB	PC	3/4"	575	Less than or Equal to 60	Code 1	N/A	B	M	11/20/2017	N/A	11/21/2017	2	2	0.0276	0.0552	
1725263	92054	MB	PC	2"	143	Less than or Equal to 60	Code 1	N/A	B	S	11/21/2017	N/A	11/22/2017	326	2	0.0612	19.9512	
1725264	92057	DB	PC	3/4"	623	Less than or Equal to 60	Code 1	N/A	B	S	11/21/2017	N/A	11/21/2017	325	1	0.0276	8.9700	
1725271	92027	DB	P	1 1/4"	551	Less than or Equal to 60	Code 1	N/A	B	M	11/20/2017	N/A	11/21/2017	2	2	0.0089	0.0178	
1725301	92106	DB	PC	3/4"	815	Less than or Equal to 60	Code 1	N/A	B	M	11/21/2017	N/A	11/21/2017	1	1	0.0276	0.0276	
1725367	91941	DB	PC	3/4"	527	Less than or Equal to 60	Code 1	N/A	B	M	11/22/2017	N/A	11/22/2017	1	1	0.0276	0.0276	
1725375	92116	MB	PC	1 1/2"	743	Less than or Equal to 60	Code 3	N/A	B	M	11/23/2017	N/A	11/24/2017	2	2	0.0612	0.1224	
1725376	91910	MB	PC	3/4"	899	Less than or Equal to 60	Code 2	N/A	B	M	11/23/2017	N/A	11/27/2017	5	5	0.0612	0.3060	
1725419	91941	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	11/25/2017	N/A	11/25/2017	1	1	0.0276	0.0276	
1725423	92102	MB	PC	1 1/4"	839	Less than or Equal to 60	Code 1	N/A	B	M	11/25/2017	N/A	11/26/2017	2	2	0.0612	0.1224	
1725425	92014	MB	PC	1 1/2"	767	Less than or Equal to 60	Code 1	N/A	B	M	11/26/2017	N/A	11/26/2017	1	1	0.0612	0.0612	
1725435	92025	MB	P	1 1/4"	407	Less than or Equal to 60	Code 1	N/A	B	M	11/25/2017	N/A	11/26/2017	2	2	0.2988	0.5976	
1725468	92056	DB	P	1/2" CTS	527	Less than or Equal to 60	Code 1	N/A	B	M	11/27/2017	N/A	11/27/2017	1	1	0.0089	0.0089	
1725491	92027	MB	P	2"	536	Less than or Equal to 60	Code 1	N/A	B	S	11/27/2017	N/A	11/28/2017	332	2	0.2988	99.2016	
1725494	92106	MB	PC	2"	1,065	Less than or Equal to 60	Code 1	N/A	B	M	11/27/2017	N/A	11/28/2017	2	2	0.0612	0.1224	
1725513	92057	DB	PC	3/4"	623	Less than or Equal to 60	Code 1	N/A	B	S	11/27/2017	N/A	11/27/2017	331	1	0.0276	9.1356	
1725534	91950	DB	P	3/4"	491	Less than or Equal to 60	Code 1	N/A	B	M	11/27/2017	N/A	11/28/2017	2	2	0.0089	0.0178	
1725574	92057	DB	PC	3/4"	40	Less than or Equal to 60	Code 1	N/A	B	S	11/28/2017	N/A	11/28/2017	332	1	0.0276	9.1632	
1725576	92116	MB	PC	1 1/2"	695	Less than or Equal to 60	Code 1	N/A	B	M	11/28/2017	N/A	11/28/2017	1	1	0.0612	0.0612	
1708603	92126	DB	P			Less than or Equal to 60	Code 1	N/A	B	S	4/21/2017	N/A	4/21/2017	111	1	0.0089	0.9879	
1725579	92054	DB	PC	3/4"	827	Less than or Equal to 60	Code 1	N/A	B	S	11/28/2017	N/A	11/28/2017	332	1	0.0276	9.1632	
1725619	92057	DB	PC	1"	587	Less than or Equal to 60	Code 1	N/A	B	S	11/28/2017	N/A	11/28/2017	332	1	0.0276	9.1632	
1725697	91977	MB	P	2"	431	Less than or Equal to 60	Code 1	N/A	B	M	11/29/2017	N/A	11/30/2017	2	2	0.2988	0.5976	
1725733	92008	DB	PC	3/4"	791	Less than or Equal to 60	Code 1	N/A	B	S	11/30/2017	N/A	12/1/2017	335	2	0.0276	9.2460	
1725752	92057	MB	PC	1 1/2"	587	Less than or Equal to 60	Code 1	N/A	B	S	11/30/2017	N/A	11/30/2017	334	1	0.0612	20.4408	
1725757	92008	DB	PC	3/4"	683	Less than or Equal to 60	Code 1	N/A	B	S	11/30/2017	N/A	11/30/2017	334	1	0.0276	9.2184	
1725794	92110	MB	PB	1 1/2"	707	Less than or Equal to 60	Code 1	N/A	B	M	11/30/2017	N/A	12/1/2017	2	2	0.0612	0.1224	
1725808	92056	MB	PC	2"	467	Less than or Equal to 60	Code 1	N/A	B	S	12/1/2017	N/A	12/1/2017	335	1	0.0612	20.5020	
1725853	91977	MB	PC	1 1/2"	551	Less than or Equal to 60	Code 1	N/A	B	M	12/1/2017	N/A	12/1/2017	1	1	0.0612	0.0612	
1725855	92014	DB	PC	3/4"	767	Less than or Equal to 60	Code 1	N/A	B	M	12/1/2017	N/A	12/1/2017	1	1	0.0276	0.0276	
1725874	92056	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	N/A	B	M	12/2/2017	N/A	12/3/2017	2	2	0.0089	0.0178	
1725895	91977	DB	PC	3/4"	347	Less than or Equal to 60	Code 1	N/A	B	M	12/3/2017	N/A	12/3/2017	1	1	0.0276	0.0276	
1725911	92056	DB	P	1/2" IPS	491	Less than or Equal to 60	Code 1	N/A	B	S	12/4/2017	N/A	12/4/2017	338	1	0.0089	3.0082	
1725952	92114	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	12/4/2017	N/A	12/4/2017	1	1	0.0276	0.0276	
1725956	92117	DB	Unknown	3/4"	731	Less than or Equal to 60	Code 1	N/A	B	M	12/3/2017	N/A	12/3/2017	1	1	0.0600	0.0600	Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1725994	92075	DB	PC	3/4"	659	Less than or Equal to 60	Code 1	N/A	B	M	12/4/2017	N/A	12/4/2017	1	1	0.0276	0.0276	
1725999	92116	DB	PC	3/4"	755	Less than or Equal to 60	Code 1	N/A	B	M	12/4/2017	N/A	12/4/2017	1	1	0.0276	0.0276	
1726056	92029	DB	P	1/2" CTS	455	Less than or Equal to 60	Code 1	N/A	B	M	12/5/2017	N/A	12/5/2017	1	1	0.0089	0.0089	
1726079	92027	DB	P	1 1/4"	755	Less than or Equal to 60	Code 1	N/A	B	M	12/5/2017	N/A	12/6/2017	2	2	0.0089	0.0178	
1726081	92037	MB	PC	1 1/2"	563	Less than or Equal to 60	Code 1	N/A	B	M	12/5/2017	N/A	12/6/2017	2	2	0.0612	0.1224	
1726095	91911	DB	PC	3/4"	766	Less than or Equal to 60	Code 2	N/A	B	M	10/31/2017	N/A	12/1/2017	32	32	0.0276	0.8832	
1726098	92084	MB	PC	1 1/2"	742	Less than or Equal to 60	Code 1	N/A	B	M	10/31/2017	N/A	10/31/2017	1	1	0.0612	0.0612	
1726113	92037	DB	PB	3/4"	707	Greater than 60	Code 1	N/A	B	M	12/6/2017	N/A	12/6/2017	1	1	0.0276	0.0276	
1726141	92111	DB	PB	3/4"	923	Less than or Equal to 60	Code 1	N/A	B	M	12/6/2017	N/A	12/6/2017	1	1	0.0276	0.0276	
1726147	92026	MB	P	3"	527	Less than or Equal to 60	Code 1	N/A	B	M	12/6/2017	N/A	12/7/2017	2	2	0.2988	0.5976	
1726153	92057	MB	PC	3/4"	623	Less than or Equal to 60	Code 1	N/A	B	M	12/6/2017	N/A	12/6/2017	1	1	0.0612	0.0612	
1726157	92113	DB	P	1/2" CTS	527	Less than or Equal to 60	Code 1	N/A	B	M	12/6/2017	N/A	12/6/2017	1	1	0.0089	0.0089	
1726183	92071	MB	P	2"	551	Less than or Equal to 60	Code 1	N/A	B	M	11/25/2017	N/A	11/26/2017	2	2	0.2988	0.5976	
1726200	92110	DB	PC	3/4"	971	Less than or Equal to 60	Code 1	N/A	B	M	12/7/2017	N/A	12/7/2017	1	1	0.0276	0.0276	
1726268	92115	DB	PC	3/4"	803	Less than or Equal to 60	Code 1	N/A	B	M	12/8/2017	N/A	12/8/2017	1	1	0.0276	0.0276	
1726281	91910	MB	PC	1 1/2"	995	Less than or Equal to 60	Code 1	N/A	B	M	12/8/2017	N/A	12/9/2017	2	2	0.0612	0.1224	
1726283	92024	DB	PB	3/4"	959	Less than or Equal to 60	Code 3	N/A	B	M	12/9/2017	N/A	12/9/2017	1	1	0.0276	0.0276	
1726284	92104	DB	PC	3/4"	815	Less than or Equal to 60	Code 1	N/A	B	M	12/9/2017	N/A	12/9/2017	1	1	0.0276	0.0276	
1726286	92026	DB	PC	3/4"	635	Less than or Equal to 60	Code 1	N/A	B	M	12/9/2017	N/A	12/9/2017	1	1	0.0276	0.0276	
1726287	92024	DB	PC	3/4"	779	Less than or Equal to 60	Code 2	N/A	B	M	12/9/2017	N/A	12/9/2017	1	1	0.0276	0.0276	
1726288	92104	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	12/9/2017	N/A	12/9/2017	1	1	0.0276	0.0276	
1726370	92009	DB	P	2"		Less than or Equal to 60	Code 1	N/A	B	M	12/11/2017	N/A	12/11/2017	1	1	0.0089	0.0089	
1726409	92124	DB	P	1/2" CTS	527	Less than or Equal to 60	Code 1	N/A	B	M	12/11/2017	N/A	12/11/2017	1	1	0.0089	0.0089	
1726454	92106	DB	PC	3/4"	1,019	Less than or Equal to 60	Code 1	N/A	B	M	12/12/2017	N/A	12/13/2017	2	2	0.0276	0.0552	
1726486	92054	MB	P			Less than or Equal to 60	Code 1	N/A	B	M	12/12/2017	N/A	12/12/2017	1	1	0.2988	0.2988	
1726500	92117	DB	PC	3/4"	599	Less than or Equal to 60	Code 1	N/A	B	M	12/12/2017	N/A	12/12/2017	1	1	0.0276	0.0276	
1726503	92111	MB	PC	1 1/2"	683	Less than or Equal to 60	Code 1	N/A	B	M	12/12/2017	N/A	12/13/2017	2	2	0.0612	0.1224	
1726504	92104	MB	PC	1 1/2"	755	Less than or Equal to 60	Code 3	N/A	B	M	12/13/2017	N/A	12/17/2017	5	5	0.0612	0.3060	
1726505	92106	DB	PC	3/4"	815	Less than or Equal to 60	Code 1	N/A	B	M	12/12/2017	N/A	12/13/2017	2	2	0.0276	0.0552	
1726540	92120	DB	PC	3/4"	707	Less than or Equal to 60	Code 1	N/A	B	M	12/12/2017	N/A	12/13/2017	2	2	0.0276	0.0552	
1726559	92116	DB	PC	1 1/4"		Less than or Equal to 60	Code 1	N/A	B	M	12/13/2017	N/A	12/13/2017	1	1	0.0276	0.0276	
1726575	92026	DB	PC	3/4"	635	Less than or Equal to 60	Code 1	N/A	B	M	12/13/2017	N/A	12/13/2017	1	1	0.0276	0.0276	
1726594	91950	DB	PC	3/4"	599	Less than or Equal to 60	Code 1	N/A	B	M	12/13/2017	N/A	12/13/2017	1	1	0.0276	0.0276	
1726601	92114	DB	PC	3/4"	803	Less than or Equal to 60	Code 1	N/A	B	M	12/13/2017	N/A	12/13/2017	1	1	0.0276	0.0276	
1726602	92115	MB	PC	1 1/2"	1,080	Less than or Equal to 60	Code 1	N/A	B	M	12/13/2017	N/A	12/13/2017	1	1	0.0612	0.0612	
1726689	92117	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	12/14/2017	N/A	12/14/2017	1	1	0.0276	0.0276	
1726703	92037	DB	PC	3/4"	947	Less than or Equal to 60	Code 1	N/A	B	M	12/14/2017	N/A	12/15/2017	2	2	0.0276	0.0552	
1726708	91941	MB	PC	1"	731	Less than or Equal to 60	Code 1	N/A	B	M	12/14/2017	N/A	12/15/2017	2	2	0.0612	0.1224	

1726719	92026	DB	P	1/2" CTS	407	Less than or Equal to 60	Code 1	N/A	B	M	12/15/2017	N/A	12/15/2017		1	1	0.0089	0.0089
1726735	92116	MB	PB			Less than or Equal to 60	Code 2	N/A	B	M	12/15/2017	N/A		3/15/2019	17		0.0612	1.0404
1726766	92173	DB	P	1/2" CTS	575	Less than or Equal to 60	Code 1	N/A	B	M	12/15/2017	N/A	12/15/2017		1	1	0.0089	0.0089
1726776	92113	DB	P	1/2" CTS	299	Less than or Equal to 60	Code 1	N/A	B	M	12/15/2017	N/A	12/15/2017		1	1	0.0089	0.0089
1726780	92054	DB	PB	3/4"	707	Less than or Equal to 60	Code 1	N/A	B	M	12/16/2017	N/A	12/17/2017		2	2	0.0276	0.0552
1726782	92103	MB	PC	4"		Less than or Equal to 60	Code 2	N/A	B	M	12/16/2017	N/A		3/16/2019	16		0.0612	0.9792
1726793	91977	DB	PC	3/4"	695	Less than or Equal to 60	Code 1	N/A	B	M	12/16/2017	N/A	12/16/2017		1	1	0.0276	0.0276
1726801	92009	DB	PC	3/4"	575	Less than or Equal to 60	Code 1	N/A	B	M	12/16/2017	N/A	12/17/2017		2	2	0.0276	0.0552
1726804	92020	DB	PB	3/4"	923	Less than or Equal to 60	Code 1	N/A	B	M	12/17/2017	N/A	12/18/2017		2	2	0.0276	0.0552
1726857	92139	MB	PC	2"	828	Less than or Equal to 60	Code 1	N/A	B	M	12/18/2017	N/A	12/20/2017		3	3	0.0612	0.1836
1726935	92139	DB	PC	3/4"	828	Less than or Equal to 60	Code 1	N/A	B	M	12/18/2017	N/A	12/18/2017		1	1	0.0276	0.0276
1726964	92139	DB	PC	3/4"	828	Less than or Equal to 60	Code 1	N/A	B	M	12/18/2017	N/A	12/18/2017		1	1	0.0276	0.0276
1726971	92110	DB	PC	3/4"	756	Less than or Equal to 60	Code 1	N/A	B	M	12/19/2017	N/A	12/19/2017		1	1	0.0276	0.0276
1726975	92037	DB	PC	3/4"	684	Less than or Equal to 60	Code 1	N/A	B	M	12/19/2017	N/A	12/19/2017		1	1	0.0276	0.0276
1726976	92139	DB	PC	3/4"	828	Less than or Equal to 60	Code 1	N/A	B	M	12/18/2017	N/A	12/18/2017		1	1	0.0276	0.0276
1726981	92119	DB	PC	3/4"	612	Less than or Equal to 60	Code 1	N/A	B	M	12/19/2017	N/A	12/19/2017		1	1	0.0276	0.0276
1727064	92103	DB	PC	1 1/4"	493	Less than or Equal to 60	Code 1	N/A	B	M	11/5/2017	N/A	11/5/2017		1	1	0.0276	0.0276
1727091	92029	MB	P	2"	372	Less than or Equal to 60	Code 1	N/A	B	M	12/21/2017	N/A	12/21/2017		1	1	0.2988	0.2988
1727120	92014	DB	P	1/2" CTS	792	Less than or Equal to 60	Code 3	N/A	B	M	12/21/2017	N/A	12/28/2017		8	8	0.0089	0.0712
1727124	92117	DB	PC	3/4"	744	Less than or Equal to 60	Code 1	N/A	B	M	12/21/2017	N/A	12/22/2017		2	2	0.0276	0.0552
1727171	92037	MB	P	1 1/4"	492	Less than or Equal to 60	Code 1	N/A	B	M	12/24/2017	N/A	12/25/2017		2	2	0.2988	0.5976
1727175	92111	DB	PC	3/4"	924	Less than or Equal to 60	Code 1	N/A	B	M	12/24/2017	N/A	12/24/2017		1	1	0.0276	0.0276
1727231	92054	MB	PC	1 1/2"	780	Less than or Equal to 60	Code 1	N/A	B	M	12/26/2017	N/A	12/26/2017		1	1	0.0612	0.0612
1727238	92115	MB	PC	2"	936	Less than or Equal to 60	Code 1	N/A	B	M	12/26/2017	N/A	12/26/2017		1	1	0.0612	0.0612
1727274	91941	DB	PC	3/4"	660	Less than or Equal to 60	Code 1	N/A	B	M	12/26/2017	N/A	12/26/2017		1	1	0.0276	0.0276
1727305	92117	MB	PC	1 1/2"	744	Less than or Equal to 60	Code 1	N/A	B	M	12/26/2017	N/A	12/27/2017		2	2	0.0612	0.1224
1727306	91950	DB	PC	2"	528	Less than or Equal to 60	Code 1	N/A	B	M	12/26/2017	N/A	12/27/2017		2	2	0.0276	0.0552
1727386	92115	DB	PC	3/4"		Less than or Equal to 60	Code 1	N/A	B	M	12/27/2017	N/A	12/28/2017		2	2	0.0276	0.0552
1727441	92054	DB	PC	1 1/2"	576	Less than or Equal to 60	Code 1	N/A	B	M	12/27/2017	N/A	12/28/2017		2	2	0.0276	0.0552
1727467	92019	DB	PC	3/4"	708	Less than or Equal to 60	Code 1	N/A	B	M	12/28/2017	N/A	12/28/2017		1	1	0.0276	0.0276
1727521	91941	DB	PC	3/4"	840	Less than or Equal to 60	Code 1	N/A	B	M	12/29/2017	N/A	12/29/2017		1	1	0.0276	0.0276
1727542	92078	MB	PC	3"		Less than or Equal to 60	Code 1	N/A	B	M	12/30/2017	N/A	12/30/2017		1	1	0.0612	0.0612
1727553	92075	MB	PB	2"		Less than or Equal to 60	Code 1	N/A	B	M	12/30/2017	N/A	12/30/2017		1	1	0.0612	0.0612
1800989	92020	MB	P			Less than or Equal to 60	Code 1	N/A	B	M	12/30/2017	N/A	12/30/2017		1	1	0.2988	0.2988

SDG&E, June 15, 2018

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent
In Response to Data Request, R15-01-008 2018 June Report
Appendix 4; Rev. 03/31/18

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]	Survey Interval (yrs) [I]	Miles Surveyed Annually from Multi-Year Survey Cycles [$M_{X,I}$]	Total # of Leaks Detected from Survey [$N_{X,L}$]	Multi-Year Interval Constant [C_I]	Annual Leak Rate [Leaks / Mile / Yr] $R_X = \frac{N_{X,L}}{M_{X,A} + (I \times M_{X,I})}$	# of Unknown Leaks † $N_{X,unk} = R_X \times C_I \times M_X$	Total # of Leaks Detected from O&M* [$N_{X,O}$]
Main/Plastic	N/A	N/A	N/A	3	N/A	N/A	1	N/A	N/A	N/A
Main/Plastic	N/A	N/A	N/A	4	N/A	N/A	1.5	N/A	N/A	N/A
Main/Plastic	4,525	1,171	3,354	5	703	9	2	0.0019	13	73
Main/Unprotected Steel	N/A	N/A	N/A	3	N/A	N/A	1	N/A	N/A	N/A
Main/Unprotected Steel	N/A	N/A	N/A	4	N/A	N/A	1.5	N/A	N/A	N/A
Main/Unprotected Steel	N/A	N/A	N/A	5	N/A	N/A	2	N/A	N/A	N/A
Main/Protected Steel	N/A	N/A	N/A	3	N/A	N/A	1	N/A	N/A	N/A
Main/Protected Steel	N/A	N/A	N/A	4	N/A	N/A	1.5	N/A	N/A	N/A
Main/Protected Steel	3,573	1,325	2,248	5	349	19	2	0.0062	28	115
Service/Plastic	N/A	N/A	N/A	3	N/A	N/A	1	N/A	N/A	N/A
Service/Plastic	N/A	N/A	N/A	4	N/A	N/A	1.5	N/A	N/A	N/A
Service/Plastic	4,239	1,306	2,933	5	494	37	2	0.0099	58	75
Service/Unprotected Steel	N/A	N/A	N/A	3	N/A	N/A	1	N/A	N/A	N/A
Service/Unprotected Steel	N/A	N/A	N/A	4	N/A	N/A	1.5	N/A	N/A	N/A
Service/Unprotected Steel	N/A	N/A	N/A	5	N/A	N/A	2	N/A	N/A	N/A
Service/Protected Steel	N/A	N/A	N/A	3	N/A	N/A	1	N/A	N/A	N/A
Service/Protected Steel	N/A	N/A	N/A	4	N/A	N/A	1.5	N/A	N/A	N/A
Service/Protected Steel	3,057	942	2,115	5	356	49	2	0.0179	76	260
Service/Copper	N/A	N/A	N/A	3	N/A	N/A	1	N/A	N/A	N/A
Service/Copper	N/A	N/A	N/A	4	N/A	N/A	1.5	N/A	N/A	N/A
Service/Copper	N/A	N/A	N/A	5	N/A	N/A	2	N/A	N/A	N/A
Total	**15,394**	**4,744**	**10,650**	**N/A**	**1,902**	**114**	**N/A**	**N/A**	**174**	**523**

† The formula for calculating the number of unknown leaks provided in Appendix 4 on the Unsurveyed Pipeline Leaks tab contains two factors in the denominator (Miles Surveyed Annually from Multi-Year Survey Cycle ($M_{X,I}$) and Survey Interval (I)). This portion of the equation simply calculates the total miles on multi-year survey. When using a simple percentage of miles as the miles surveyed in the reported year this equation yields the correct total miles on the multi-year cycle; however, when using actual miles it is incorrect and is off by the difference from the straight percentage times the interval of the cycle. The correct approach is to use the actual miles in column D (which has been labeled M_X). This set of factors is also used in the equation in Column I for calculating the annual leak rates (R_X); however, in this case it is correct because when the portion being surveyed is not an exact proportion the mileage basis must be allowed to vary in order to properly derive the annual leak rates.

Estimated Emissions by Pipeline Facility/Material for Each Leakage Category

Facility/Material	Leakage Category	Emission Factor (Mscf/day/leak)	2017 Emissions from Leaks detected Prior to 2017 (Mscf)	2017 Emissions from Leaks Detected from 2017 Survey (Mscf)	2017 Emissions from O&M* Leaks Detected in 2017 (Mscf)	2017 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2017 Emissions from Distribution Pipelines (Mscf)
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	22	693	75	1,405	2,195
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	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	11	264	55	622	952
Main/Unknown*		0.2988	0	0	1	0	1
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	59	1	188	249
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/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	9	268	23	762	1,063
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	40	1	0	41
Unknown/Unknown*		0.2988	0	0	0	0	0

Total	**N/A**	**42**	**1,325**	**157**	**2,978**	**4,501**	**Total**

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.

* Leaks are occasionally repaired without excavation of the leak location resulting in Material and/or Facility to be unknown. In these cases the most conservative emission factor is applied. There are no "Unknown leaks" for these line items because all system mileage is accounted for in the other categories.

SDG&E, June 15, 2018

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 2018 June Report

Appendix 4; Rev. 03/31/18

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 (12/31/17)	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	540	540	1	N/A*	0	0	879	N/A	N/A	
Grade 2	15	83	96	50	N/A*	2	42	561	N/A	N/A	
Grade 3	0	14	14	32	N/A*	0	0	41	N/A	N/A	
Graded Leak Total	15	637	650	N/A**	N/A*	2	42	1,481	N/A*	N/A	
Above Ground Hazardous	0	0	0		N/A*	0	0	0	N/A*	N/A	
Above Ground Non-Hazardous	0	0	0		N/A*	0	0	0	N/A*	N/A	
Above Ground Non-Hazardous Minor	0	0	0		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	Column E - The duration of Grade 1 leaks is estimated based on company policy.
Total of All Leaks	**15**	**637**	**650**	**N/A****	**N/A***	**2**	**42**	**1,481**	**N/A***	**N/A**	
Main/Plastic	1	81	82	7	13	0	22	768	1,405	2,195	
Main/Unprotected Steel	0	0	0	0	0	0	0	0	0	0	
Main/Protected Steel	5	133	136	14	28	2	11	320	622	952	
Main/Unknown	0	2	2	2	0	0	0	1	0	1	
Service/Plastic	1	111	112	7	58	0	0	60	188	249	
Service/Unprotected Steel	0	0	0	0	0	0	0	0	0	0	
Service/Protected Steel	8	305	313	9	76	0	9	291	762	1,063	
Service/Copper	0	0	0	0	0	0	0	0	0	0	
Service/Unknown	0	5	5	12	0	0	0	41	0	41	
Unknown/Unknown	0	0	0	0	0	0	0	0	0	0	
Total	**15**	**637**	**650**	**N/A****	**174**	**2**	**42**	**1,481**	**2,978**	**4,501**	

* 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 15, 2018

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 2018 June Report
Appendix 4; Rev. 03/31/18

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
1702132	92111	E	MB	PB	1"	913	Less than or Equal to 60	Code 1	B	1/30/2017	1/30/2017	1		24.282	
1712111	92019	E	DB	PB	3/4"	749	Less than or Equal to 60	Code 1	B	6/6/2017	6/6/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723943	91945	O	DB	PB	3/4"	634	Less than or Equal to 60	Code 1	B	10/31/2017	10/31/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726783	92028	E	DB	PB	1"	539	Less than or Equal to 60	Code 1	B	12/16/2017	12/16/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700411	92131	N	DB	P	1/2" CTS	444	Less than or Equal to 60	Code 1	B	1/6/2017	1/7/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700650	92107	E	DB	P	1/2" CTS	144	Less than or Equal to 60	Code 1	B	1/10/2017	1/10/2017	1		2.556	
1700813	92037	E	DB	P	1/2" CTS	79	Less than or Equal to 60	Code 1	B	1/12/2017	1/12/2017	1		5.664	
1700955	92110	E	DB	P	1/2" CTS	384	Less than or Equal to 60	Code 1	B	1/16/2017	1/16/2017	1		24.867	
1701408	92037	N	DB	PC	3/4"	493	Less than or Equal to 60	Code 1	B	1/21/2017	1/21/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1703231	92037	E	DB	PC	3/4"	745	Less than or Equal to 60	Code 1	B	2/13/2017	2/13/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1704156	92106	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	2/19/2017	2/19/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1704836	92126	E	DB	PB	3/4"	554	Less than or Equal to 60	Code 1	B	3/4/2017	3/4/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705016	92107	E	DB	PB	3/4"	758	Less than or Equal to 60	Code 1	B	3/7/2017	3/7/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705401	91950	E	DB	P	1"	470	Less than or Equal to 60	Code 1	B	3/9/2017	3/9/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705489	91950	E	DB	PC	3/4"	698	Less than or Equal to 60	Code 1	B	3/11/2017	3/11/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705986	92109	E	DB	PC	3/4"	794	Less than or Equal to 60	Code 1	B	3/17/2017	3/17/2017	1		9.108	
1706552	92117	E	DB	P	1/2" CTS	483	Less than or Equal to 60	Code 1	B	3/24/2017	3/24/2017	1		6.493	
1706680	92037	E	DB	P	1/2" CTS	735	Less than or Equal to 60	Code 1	B	3/27/2017	3/27/2017	1		1.232	
1712507	92121	E	DB	P	1"	10	Less than or Equal to 60	Code 1	B	4/12/2017	4/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1708765	92037	E	DB	P	1"	808	Less than or Equal to 60	Code 1	B	4/24/2017	4/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1708826	92109	E	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	B	4/25/2017	4/25/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1709244	92116	E	DB	P	1/2" CTS	376	Less than or Equal to 60	Code 1	B	4/30/2017	4/30/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1709292	92130	E	DB	P	1"	8	Less than or Equal to 60	Code 1	B	5/1/2017	5/1/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1709625	92110	N	DB	PB	3/4"	796	Less than or Equal to 60	Code 1	B	5/4/2017	5/4/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711030	92106	E	DB	PC	3/4"	821	Less than or Equal to 60	Code 1	B	5/22/2017	5/22/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711262	92111	E	DB	PC	3/4"	917	Less than or Equal to 60	Code 1	B	5/24/2017	5/24/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711477	92037	E	DB	P	1/2" CTS	545	Less than or Equal to 60	Code 1	B	5/26/2017	5/26/2017	1		12.433	
1711708	92037	E	DB	P	1/2" CTS	557	Less than or Equal to 60	Code 1	B	5/31/2017	5/31/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711801	92109	E	DB	P	1/2" CTS	341	Less than or Equal to 60	Code 1	B	6/1/2017	6/1/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712257	92037	E	DB	PC	3/4"	833	Less than or Equal to 60	Code 1	B	6/7/2017	6/7/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713427	92130	E	DB	P	1/2" CTS	234	Less than or Equal to 60	Code 1	B	6/22/2017	6/22/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713668	92037	E	MB	P	3"	486	Less than or Equal to 60	Code 1	B	6/26/2017	6/26/2017	1		50.687	
1713737	92107	E	DB	PB	3/4"	678	Less than or Equal to 60	Code 1	B	6/27/2017	6/27/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714364	92117	E	DB	PC	3/4"	774	Less than or Equal to 60	Code 1	B	7/6/2017	7/6/2017	1		6.072	
1714666	92123	E	DB	P	1"		Less than or Equal to 60	Code 1	B	7/11/2017	7/11/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715767	92037	E	DB	P	1/2" CTS	4	Less than or Equal to 60	Code 1	B	7/13/2017	7/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716759	92106	E	DB	P	1"	810	Less than or Equal to 60	Code 1	B	7/13/2017	7/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714965	92105	E	DB	P	1/2" CTS	174	Less than or Equal to 60	Code 1	B	7/15/2017	7/15/2017	1		16.302	
1714969	92037	E	DB	P	1/2" CTS	1058	Less than or Equal to 60	Code 1	B	7/15/2017	7/15/2017	1		1.571	
1714972	92126	E	DB	P	1/2" CTS	534	Less than or Equal to 60	Code 1	B	7/16/2017	7/16/2017	1		0.462	
1715361	92037	E	DB	P	2"	163	Less than or Equal to 60	Code 1	B	7/20/2017	7/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715374	92126	E	DB	P	1"	49	Less than or Equal to 60	Code 1	B	7/20/2017	7/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715939	92110	E	DB	P	1/2" CTS	799	Less than or Equal to 60	Code 1	B	7/24/2017	7/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715815	92037	E	DB	P	1"	775	Less than or Equal to 60	Code 1	B	7/25/2017	7/25/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715822	92107	E	DB	P	1/2" CTS	307	Less than or Equal to 60	Code 1	B	7/25/2017	7/25/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716313	92037	E	DB	P	1/2" CTS	223	Less than or Equal to 60	Code 1	B	7/31/2017	7/31/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716508	92109	E	DB	P	1/2" CTS	523	Less than or Equal to 60	Code 1	B	8/2/2017	8/2/2017	1		8.980	
1716891	92111	E	DB	P	1/2" CTS	547	Less than or Equal to 60	Code 1	B	8/8/2017	8/8/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717060	92123	E	DB	P	2"	595	Less than or Equal to 60	Code 1	B	8/8/2017	8/8/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717877	92106	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	8/21/2017	8/21/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717926	92124	E	DB	P	1/2" CTS	560	Less than or Equal to 60	Code 1	B	8/22/2017	8/22/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717945	92037	E	DB	P	1/2" CTS	752	Less than or Equal to 60	Code 1	B	8/22/2017	8/22/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1718325	92106	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	8/25/2017	8/25/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1718548	92126	E	DB	P	1/2" CTS	560	Less than or Equal to 60	Code 1	B	8/28/2017	8/28/2017	1		17.407	
1718513	92124	E	MB	P	2"	464	Less than or Equal to 60	Code 1	B	8/29/2017	8/29/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1718644	92037	E	MB	PC	2"	812	Less than or Equal to 60	Code 1	B	8/30/2017	8/30/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719003	92106	E	MB	P	2"	127	Less than or Equal to 60	Code 1	B	9/5/2017	9/5/2017	1		117.072	
1719163	92106	E	DB	PC	3/4"	1040	Less than or Equal to 60	Code 1	B	9/7/2017	9/7/2017	1		19.951	
1719520	92109	E	DB	P	1/2" CTS	43	Less than or Equal to 60	Code 1	B	9/8/2017	9/8/2017	1		11.605	
1719337	92124	E	DB	P	1/2" CTS	452	Less than or Equal to 60	Code 1	B	9/11/2017	9/11/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720190	92110	E	DB	PC	3/4"	717	Less than or Equal to 60	Code 1	B	9/20/2017	9/20/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720258	92037	E	DB	PC	3/4"	753	Less than or Equal to 60	Code 1	B	9/21/2017	9/21/2017	1		24.939	
1720538	92037	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	9/25/2017	9/25/2017	1		4.990	
1720713	92121	E	DB	P	1"	525	Less than or Equal to 60	Code 1	B	9/26/2017	9/26/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721004	92037	E	DB	PC	3/4"	717	Less than or Equal to 60	Code 1	B	9/28/2017	9/28/2017	1		7.758	
1721147	92131	E	DB	P	1/2" IPS	501	Less than or Equal to 60	Code 1	B	9/29/2017	9/29/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722176	92107	E	DB	P	1/2" IPS	345	Less than or Equal to 60	Code 1	B	10/11/2017	10/11/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722399	92105	E	DB	P	1 1/4"	1052	Less than or Equal to 60	Code 1	B	10/13/2017	10/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722431	92037	N	DB	P	1/2" CTS	537	Less than or Equal to 60	Code 1	B	10/14/2017	10/15/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722821	92131	E	DB	P	1/2" IPS	454	Less than or Equal to 60	Code 1	B	10/17/2017	10/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723398	92106	E	DB	P	1"	814	Less than or Equal to 60	Code 1	B	10/25/2017	10/25/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724011	92109	E	DB	P	1/2" IPS	730	Less than or Equal to 60	Code 1	B	11/1/2017	11/1/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724540	92108	E	DB	P	2"	334	Less than or Equal to 60	Code 1	B	11/10/2017	11/10/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724717	92109	E	DB	P	1/2" CTS	502	Less than or Equal to 60	Code 1	B	11/13/2017	11/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724725	92106	E	DB	P	1/2" IPS	514	Less than or Equal to 60	Code 1	B	11/13/2017	11/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724787	92110	E	DB	P	1"	718	Less than or Equal to 60	Code 1	B	11/14/2017	11/14/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724834	92126	E	DB	P	1/2" CTS	598	Less than or Equal to 60	Code 1	B	11/14/2017	11/15/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726850	92109	E	DB	P	1/2" CTS	1078	Less than or Equal to 60	Code 1	B	12/18/2017	12/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726885	92106	E	DB	P	1/2" CTS	816	Less than or Equal to 60	Code 1	B	12/18/2017	12/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726974	92126	E	DB	P	1 1/4"	528	Less than or Equal to 60	Code 1	B	12/19/2017	12/19/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726977	92037	E	DB	PC	3/4"	732	Less than or Equal to 60	Code 1	B	12/19/2017	12/19/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700315	91911	E	DB	PC	3/4"	804	Less than or Equal to 60	Code 1	B	1/5/2017	1/5/2017	1		18.867	
1700803	92154	N	DB	P	1 1/4"	792	Less than or Equal to 60	Code 1	B	1/12/2017	1/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1701059	91911	E	DB	P	1"		Less than or Equal to 60	Code 1	B	1/17/2017	1/17/2017	1		0.779	
1701194	92105	E	DB	P	1 1/4"	721	Less than or Equal to 60	Code 1	B	1/18/2017	1/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1701383	92104	N	DB	P	1/2" CTS	169	Less than or Equal to 60	Code 1	B	1/20/2017	1/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1701394	91910	E	DB	PC	3/4"		Less than or Equal to 60	Code 1	B	1/20/2017	1/20/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1701485	91902	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	1/23/2017	1/23/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1701765	92104	E	DB	PC	3/4"	805	Less than or Equal to 60	Code 1	B	1/25/2017	1/25/2017	1		1.447	
1701767	92103	E	DB	P	1 1/4"	733	Less than or Equal to 60	Code 1	B	1/25/2017	1/25/2017	1		44.360	
1702366	92173	E	DB	PC	3/4"	505	Less than or Equal to 60	Code 1	B	2/1/2017	2/1/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1703492	92154	E	MB	P	2"	577	Less than or Equal to 60	Code 1	B	2/9/2017	2/9/2017	1		13.905	
1703121	92101	E	DB	PC	3/4"	709	Less than or Equal to 60	Code 1	B	2/11/2017	2/11/2017	1		30.144	
1703205	92103	E	DB	P	1/2" CTS	625	Less than or Equal to 60	Code 1	B	2/13/2017	2/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1703788	92116	E	DB	PC	3/4"	722	Less than or Equal to 60	Code 1	B	2/21/2017	2/21/2017	1		21.215	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
1703843	92116	E	DB	PC	3/4"	842	Less than or Equal to 60	Code 1	B	2/22/2017	2/22/2017	1		14.530	
1704744	92154	E	DB	P	1"		Less than or Equal to 60	Code 1	B	3/1/2017	3/1/2017	1		13.075	
1704808	91910	E	DB	P	1/2" IPS	722	Less than or Equal to 60	Code 1	B	3/4/2017	3/4/2017	1		10.914	
1705021	92116	E	DB	PC	3/4"	854	Less than or Equal to 60	Code 1	B	3/7/2017	3/7/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705569	92103	E	DB	P	1/2" CTS	890	Less than or Equal to 60	Code 1	B	3/13/2017	3/13/2017	1		3.592	
1705713	92118	E	DB	P	1"	9	Less than or Equal to 60	Code 1	B	3/14/2017	3/14/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705906	92116	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	3/16/2017	3/16/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1706865	92105	E	MB	P	2"	435	Less than or Equal to 60	Code 1	B	3/29/2017	3/29/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1707611	92104	E	DB	P	1/2" CTS	531	Less than or Equal to 60	Code 1	B	4/7/2017	4/7/2017	1		3.177	
1708048	92104	E	DB	P	1"	171	Less than or Equal to 60	Code 1	B	4/8/2017	4/8/2017	1		18.857	
1707809	91913	E	MB	P	2"	3	Less than or Equal to 60	Code 1	B	4/11/2017	4/11/2017	1		9.256	
1708151	91902	E	DB	P	1/2" CTS	363	Less than or Equal to 60	Code 1	B	4/11/2017	4/11/2017	1		33.432	
1707947	91911	E	MB	PC	2"	807	Less than or Equal to 60	Code 1	B	4/14/2017	4/14/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1708135	92116	E	DB	P	1/2" IPS	183	Less than or Equal to 60	Code 1	B	4/17/2017	4/17/2017	1		2.957	
1708187	92116	E	DB	PC	3/4"	640	Less than or Equal to 60	Code 1	B	4/18/2017	4/18/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1708838	92154	E	DB	P	1/2" CTS	4	Less than or Equal to 60	Code 1	B	4/25/2017	4/25/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1708996	92105	E	DB	PC	3/4"	12	Less than or Equal to 60	Code 1	B	4/26/2017	4/26/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1709206	92113	E	DB	P	1/2" CTS	760	Less than or Equal to 60	Code 1	B	4/28/2017	4/28/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1709614	92105	E	DB	P	1/2" CTS	3	Less than or Equal to 60	Code 1	B	5/4/2017	5/5/2017	2		112.817	
1710351	92102	E	DB	P	1/2" CTS	460	Less than or Equal to 60	Code 1	B	5/12/2017	5/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711027	91913	E	DB	P	1"	2	Less than or Equal to 60	Code 1	B	5/22/2017	5/22/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711637	92116	E	DB	P	1/2" CTS	533	Less than or Equal to 60	Code 1	B	5/25/2017	5/25/2017	1		6.079	
1711847	92109	E	MB	PC	1 1/2"	1087	Less than or Equal to 60	Code 1	B	6/1/2017	6/2/2017	2		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712366	92118	E	DB	P	1"	845	Less than or Equal to 60	Code 1	B	6/8/2017	6/8/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712465	91902	E	DB	PB	3/4"	24	Less than or Equal to 60	Code 1	B	6/9/2017	6/10/2017	2		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712678	92105	E	DB	PC	3/4"	797	Less than or Equal to 60	Code 1	B	6/13/2017	6/13/2017	1		19.335	
1712813	92103	E	MB	P	2"	488	Less than or Equal to 60	Code 1	B	6/15/2017	6/15/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713303	92105	E	DB	PC	3/4"	774	Less than or Equal to 60	Code 1	B	6/21/2017	6/21/2017	1		17.783	
1713459	92102	N	DB	P	1/2" CTS	762	Less than or Equal to 60	Code 1	B	6/22/2017	6/22/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713464	92102	E	MB	P	2"	506	Less than or Equal to 60	Code 1	B	6/22/2017	6/22/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713537	92116	E	DB	P	1 1/4"	834	Less than or Equal to 60	Code 1	B	6/23/2017	6/23/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714089	92102	E	DB	PC	1 1/2"	666	Less than or Equal to 60	Code 1	B	6/30/2017	6/30/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714213	92118	E	DB	P	1/2" CTS	522	Less than or Equal to 60	Code 1	B	7/5/2017	7/5/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714349	91950	E	DB	PC	3/4"	564	Less than or Equal to 60	Code 1	B	7/6/2017	7/6/2017	1		10.192	
1714420	92118	E	DB	P	1/2" IPS	618	Less than or Equal to 60	Code 1	B	7/7/2017	7/7/2017	1		9.947	
1714588	92102	E	DB	P	1/2" IPS	498	Less than or Equal to 60	Code 1	B	7/10/2017	7/10/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715662	92102	E	DB	P	1/2" CTS	703	Less than or Equal to 60	Code 1	B	7/24/2017	7/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715926	92114	E	DB	PC	3/4"	1075	Less than or Equal to 60	Code 1	B	7/26/2017	7/26/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716183	92116	E	DB	PC	3/4"	823	Less than or Equal to 60	Code 1	B	7/28/2017	7/28/2017	1		29.710	
1716494	92105	E	MB	P	2"	5	Less than or Equal to 60	Code 1	B	8/2/2017	8/2/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716592	92104	E	DB	P	1/2" CTS	175	Less than or Equal to 60	Code 1	B	8/3/2017	8/3/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716603	92102	E	DB	P	1/2" CTS	679	Less than or Equal to 60	Code 1	B	8/1/2017	8/3/2017	3		50.701	
1716990	92114	E	DB	P	1/2" IPS	391	Less than or Equal to 60	Code 1	B	8/9/2017	8/9/2017	1		3.296	
1718481	91915	E	DB	P	1"	19	Less than or Equal to 60	Code 1	B	8/29/2017	8/29/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1718595	91913	E	DB	P	1/2" CTS	8	Less than or Equal to 60	Code 1	B	8/30/2017	8/30/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1718800	92118	E	DB	P	1"		Less than or Equal to 60	Code 1	B	9/1/2017	9/1/2017	1		17.960	
1718950	92114	E	DB	P	1/2" CTS	692	Less than or Equal to 60	Code 1	B	9/5/2017	9/5/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719064	92116	E	MB	PC	1 1/2"	884	Less than or Equal to 60	Code 1	B	9/6/2017	9/6/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719130	92103	E	DB	P	1/2" CTS	488	Less than or Equal to 60	Code 1	B	9/7/2017	9/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719175	91911	E	DB	P	1"	12	Less than or Equal to 60	Code 1	B	9/7/2017	9/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719208	92103	E	DB	P	1/2" CTS	392	Less than or Equal to 60	Code 1	B	9/7/2017	9/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719528	92103	E	DB	P	1/2" CTS	512	Less than or Equal to 60	Code 1	B	9/8/2017	9/8/2017	1		2.526	
1719393	91911	E	DB	P	1"	13	Less than or Equal to 60	Code 1	B	9/11/2017	9/11/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720188	92116	E	DB	P	1/2" CTS	537	Less than or Equal to 60	Code 1	B	9/20/2017	9/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720237	92104	E	DB	P	1/2" CTS	47	Less than or Equal to 60	Code 1	B	9/21/2017	9/21/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720775	92114	E	DB	P	1/2" IPS	789	Less than or Equal to 60	Code 1	B	9/27/2017	9/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721058	92114	E	DB	P	1/2" IPS	837	Less than or Equal to 60	Code 1	B	9/29/2017	9/29/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721365	92101	E	DB	P	1/2" CTS	480	Less than or Equal to 60	Code 1	B	10/3/2017	10/3/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722052	92101	E	MB	P	3"	129	Less than or Equal to 60	Code 1	B	10/10/2017	10/11/2017	2		5.076	
1722118	92105	E	DB	P	1/2" CTS	597	Less than or Equal to 60	Code 1	B	10/11/2017	10/11/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722285	92113	E	DB	P	1/2" IPS	153	Less than or Equal to 60	Code 1	B	10/12/2017	10/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722698	91902	E	DB	P	1/2" CTS	526	Less than or Equal to 60	Code 1	B	10/17/2017	10/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722945	91902	E	DB	P	1/2" IPS	514	Less than or Equal to 60	Code 1	B	10/19/2017	10/19/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723041	92105	E	DB	P	1/2" IPS	1054	Less than or Equal to 60	Code 1	B	10/20/2017	10/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723127	92104	E	DB	PC	3/4"	766	Less than or Equal to 60	Code 1	B	10/23/2017	10/23/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723323	92101	E	DB	P	1/2" IPS	622	Less than or Equal to 60	Code 1	B	10/24/2017	10/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723740	91950	E	DB	PC	3/4"	490	Less than or Equal to 60	Code 1	B	10/28/2017	10/28/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723854	92116	E	MB	PC	1 1/2"	298	Less than or Equal to 60	Code 1	B	10/30/2017	10/30/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724149	92103	E	DB	P	1/2" CTS	519	Less than or Equal to 60	Code 1	B	11/3/2017	11/3/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724313	92105	E	DB	PC	3/4"	1054	Less than or Equal to 60	Code 1	B	11/6/2017	11/6/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724348	91915	E	DB	P	1"	32	Less than or Equal to 60	Code 1	B	11/7/2017	11/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724609	91902	E	DB	P	1/2" CTS	526	Less than or Equal to 60	Code 1	B	11/10/2017	11/10/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724802	92103	E	DB	P	1/2" CTS	525	Less than or Equal to 60	Code 1	B	11/14/2017	11/14/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725057	92103	E	DB	P	1"	467	Less than or Equal to 60	Code 1	B	11/17/2017	11/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725378	92114	E	DB	P	1/2" CTS	503	Less than or Equal to 60	Code 1	B	11/23/2017	11/23/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725495	92114	E	DB	P	1/2" CTS	695	Less than or Equal to 60	Code 1	B	11/27/2017	11/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725679	92114	E	MB	PC	1 1/2"	707	Less than or Equal to 60	Code 1	B	11/29/2017	11/29/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725755	91932	E	DB	P	1/2" CTS	12	Less than or Equal to 60	Code 1	B	11/30/2017	11/30/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726111	92105	E	DB	PC	3/4"	863	Less than or Equal to 60	Code 1	B	12/6/2017	12/6/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726223	92104	E	DB	PC	3/4"	407	Less than or Equal to 60	Code 1	B	12/7/2017	12/7/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726682	91915	E	MB	P	2"	37	Less than or Equal to 60	Code 1	B	12/12/2017	12/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726507	92105	E	DB	P	1/2" CTS	755	Less than or Equal to 60	Code 1	B	12/12/2017	12/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726930	92104	E	DB	PC	1 1/2"	528	Less than or Equal to 60	Code 1	B	12/19/2017	12/19/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727085	92103	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	12/21/2017	12/21/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727097	92104	E	DB	P	1/2" IPS	528	Less than or Equal to 60	Code 1	B	12/21/2017	12/21/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727126	92116	E	DB	P	1/2" IPS	828	Less than or Equal to 60	Code 1	B	12/22/2017	12/22/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727154	92114	N	DB	P	1/2" CTS	480	Less than or Equal to 60	Code 1	B	12/22/2017	12/23/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727370	91902	E	DB	P	1/2" CTS	372	Less than or Equal to 60	Code 1	B	12/27/2017	12/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727375	92114	N	DB	P	1/2" CTS	480	Less than or Equal to 60	Code 1	B	12/27/2017	12/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727450	92101	E	DB	P	1/2" CTS	480	Less than or Equal to 60	Code 1	B	12/28/2017	12/28/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700015	91941	N	DB	P	1/2" CTS	948	Less than or Equal to 60	Code 1	B	1/2/2017	1/2/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700795	91941	E	DB	P	1"		Less than or Equal to 60	Code 1	B	1/12/2017	1/12/2017	1		7.845	
1701187	92120	E	DB	P	1/2" CTS	6	Less than or Equal to 60	Code 1	B	1/18/2017	1/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1701763	91977	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	1/25/2017	1/25/2017	1		8.289	
1702707	92115	E	DB	PC	3/4"	901	Less than or Equal to 60	Code 1	B	2/6/2017	2/6/2017	1		7.635	
1703122	92019	N	DB	P	1/2" CTS	529	Less than or Equal to 60	Code 1	B	2/13/2017	2/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1703468	92071	E	DB	P	1"	121	Less than or Equal to 60	Code 1	B	2/15/2017	2/16/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1703643	91941	E	DB	PC	3/4"	830	Less than or Equal to 60	Code 1	B	2/18/2017	2/18/2017	1		14.778	
1705112	91977	E	DB	P	1/2" CTS	542	Less than or Equal to 60	Code 1	B	3/8/2017	3/8/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705900	92021	E	DB	PC	3/4"	506	Less than or Equal to 60	Code 1	B	3/16/2017	3/16/2017	1		16.502	
1706437	92020	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	3/23/2017	3/23/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1706493	92021	E	DB	P	1/2" CTS	543	Less than or Equal to 60	Code 1	B	3/24/2017	3/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1707887	91945	E	DB	P	1/2" IPS	519	Less than or Equal to 60	Code 1	B	4/11/2017	4/11/2017	1		0.739	
1709081	91977	E	DB	P	1/2" CTS	400	Less than or Equal to 60	Code 1	B	4/27/2017	4/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1710793	91941	E	DB	PC	3/4"	701	Less than or Equal to 60	Code 1	B	5/18/2017	5/18/2017	1		21.215	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
1710907	92021	E	DB	P	1/2" CTS	521	Less than or Equal to 60	Code 1	B	5/19/2017	5/19/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711164	92040	E	DB	P	1/2" CTS	29	Less than or Equal to 60	Code 1	B	5/24/2017	5/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711196	92019	E	DB	P	1/2" CTS	322	Less than or Equal to 60	Code 1	B	5/24/2017	5/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711828	92021	E	DB	P	1/2" CTS	257	Less than or Equal to 60	Code 1	B	5/29/2017	5/29/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711904	92021	N	MB	P	1 1/4"	485	Less than or Equal to 60	Code 1	B	6/2/2017	6/2/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712416	92019	E	DB	P	1/2" CTS	377	Less than or Equal to 60	Code 1	B	6/9/2017	6/9/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714946	92021	E	DB	P	1/2" CTS	426	Less than or Equal to 60	Code 1	B	7/14/2017	7/14/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715172	91941	E	DB	P	1/2" CTS	979	Less than or Equal to 60	Code 1	B	7/18/2017	7/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715184	92021	E	DB	P	1/2" CTS	535	Less than or Equal to 60	Code 1	B	7/18/2017	7/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715339	92071	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	7/20/2017	7/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715427	92071	E	MB	P	2"	535	Less than or Equal to 60	Code 1	B	7/21/2017	7/21/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715649	92020	E	DB	P	1/2" CTS	535	Less than or Equal to 60	Code 1	B	7/24/2017	7/24/2017	1		3.454	
1717608	92040	E	DB	P	1/2" CTS	464	Less than or Equal to 60	Code 1	B	8/17/2017	8/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720081	92021	E	DB	P	1/2" CTS	525	Less than or Equal to 60	Code 1	B	9/19/2017	9/19/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720159	92040	E	DB	PC	3/4"	405	Less than or Equal to 60	Code 1	B	9/20/2017	9/20/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721533	91942	E	DB	PB	3/4"	777	Less than or Equal to 60	Code 1	B	10/5/2017	10/5/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721579	92021	E	DB	P	1/2" CTS	501	Less than or Equal to 60	Code 1	B	10/5/2017	10/5/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721789	91901	E	DB	P	1"	285	Less than or Equal to 60	Code 1	B	10/7/2017	10/7/2017	1		22.414	
1721876	92021	E	DB	Unknown		597	Less than or Equal to 60	Code 1	B	10/9/2017	10/9/2017	1		37.353	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.
1721921	91977	N	DB	P	1/2" CTS	561	Less than or Equal to 60	Code 1	B	10/9/2017	10/10/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722343	91977	E	DB	P	1/2" CTS	561	Less than or Equal to 60	Code 1	B	10/13/2017	10/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722395	91977	E	DB	PC	3/4"	753	Less than or Equal to 60	Code 1	B	10/13/2017	10/13/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722677	92020	E	MB	P	2"	130	Less than or Equal to 60	Code 1	B	10/17/2017	10/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722770	92020	E	DB	PC	3/4"	838	Less than or Equal to 60	Code 1	B	10/18/2017	10/18/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722841	91977	E	DB	PC	3/4"	706	Less than or Equal to 60	Code 1	B	10/18/2017	10/18/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723045	92115	E	DB	P	1/2" CTS	814	Less than or Equal to 60	Code 1	B	10/20/2017	10/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723924	92115	E	DB	P	1/2" CTS	802	Less than or Equal to 60	Code 1	B	10/31/2017	10/31/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724178	92021	E	DB	P	1"	52	Less than or Equal to 60	Code 1	B	11/3/2017	11/3/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725511	92040	E	DB	P	1/2" CTS	455	Less than or Equal to 60	Code 1	B	11/27/2017	11/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725592	91941	E	DB	P	1/2" IPS	323	Less than or Equal to 60	Code 1	B	11/27/2017	11/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725554	92020	E	DB	P	1"	143	Less than or Equal to 60	Code 1	B	11/28/2017	11/28/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726342	91901	E	DB	P	1"	287	Less than or Equal to 60	Code 1	B	12/11/2017	12/11/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727438	92020	E	DB	PC	3/4"	792	Less than or Equal to 60	Code 1	B	12/28/2017	12/28/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727455	92040	E	DB	P	1"	564	Less than or Equal to 60	Code 1	B	12/28/2017	12/28/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1800001	91945	N	DB	P	1/2" CTS	420	Less than or Equal to 60	Code 1	B	12/31/2017	12/31/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700221	92054	E	DB	P	1/2" CTS	816	Less than or Equal to 60	Code 1	B	1/4/2017	1/4/2017	1		1.355	
1700236	92054	E	MB	P	1 1/4"		Less than or Equal to 60	Code 1	B	1/4/2017	1/4/2017	1		24.953	
1700426	92083	N	DB	P	1"		Less than or Equal to 60	Code 1	B	1/8/2017	1/8/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700655	92054	E	DB	PC	1"	864	Less than or Equal to 60	Code 1	B	1/10/2017	1/10/2017	1		23.908	
1700649	92075	E	DB	P	1/2" CTS	768	Less than or Equal to 60	Code 1	B	1/10/2017	1/10/2017	1		3.419	
1701964	92014	N	MB	PC	2"	829	Less than or Equal to 60	Code 1	B	1/25/2017	1/25/2017	1		63.319	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1701909	92054	N	DB	P	1 1/4"	433	Less than or Equal to 60	Code 1	B	1/27/2017	1/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1702089	92024	E	DB	P	1/2" IPS	517	Less than or Equal to 60	Code 1	B	1/30/2017	1/30/2017	1		22.380	
1702241	92024	E	DB	P	1/2" CTS	349	Less than or Equal to 60	Code 1	B	1/31/2017	1/31/2017	1		1.632	
1702276	92084	E	DB	P	1"	20	Less than or Equal to 60	Code 1	B	1/30/2017	1/31/2017	2		1.559	
1703940	92024	N	DB	P	1"	31	Less than or Equal to 60	Code 1	B	2/17/2017	2/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1703646	92081	E	DB	P	1/2" CTS	494	Less than or Equal to 60	Code 1	B	2/18/2017	2/18/2017	1		20.722	
1703987	92009	E	DB	P	1/2" IPS	494	Less than or Equal to 60	Code 1	B	2/23/2017	2/23/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1704149	92009	E	DB	P	1/2" IPS	542	Less than or Equal to 60	Code 1	B	2/24/2017	2/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1704288	92054	N	DB	P	1/2" CTS	410	Less than or Equal to 60	Code 1	B	2/28/2017	2/28/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1704491	92054	E	MB	P	1 1/4"		Less than or Equal to 60	Code 1	B	3/1/2017	3/1/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705036	92009	E	DB	P	1"	20	Less than or Equal to 60	Code 1	B	3/7/2017	3/7/2017	1		1.897	
1705042	92084	E	MB	P	2"	153	Less than or Equal to 60	Code 1	B	3/7/2017	3/7/2017	1		113.483	
1705486	92084	E	DB	P	1/2" IPS	614	Less than or Equal to 60	Code 1	B	3/11/2017	3/11/2017	1		21.966	
1705798	92009	E	DB	P	1/2" CTS	554	Less than or Equal to 60	Code 1	B	3/15/2017	3/15/2017	1		2.033	
1705965	92057	E	DB	P	1"	434	Less than or Equal to 60	Code 1	B	3/17/2017	3/17/2017	1		4.405	
1706131	92130	E	DB	P	1/2" CTS	207	Less than or Equal to 60	Code 1	B	3/20/2017	3/20/2017	1		1.170	
1706674	92084	E	DB	P	1 1/4"	471	Less than or Equal to 60	Code 1	B	3/27/2017	3/27/2017	1		117.000	
1707001	92007	E	DB	P	1"	807	Less than or Equal to 60	Code 1	B	3/31/2017	3/31/2017	1		5.773	
1707363	92084	E	DB	P	1/2" CTS	519	Less than or Equal to 60	Code 1	B	4/4/2017	4/4/2017	1		2.218	
1708007	92081	E	DB	P	2"	339	Less than or Equal to 60	Code 1	B	4/14/2017	4/14/2017	1		43.958	
1708082	92081	E	DB	P	1/2" CTS	363	Less than or Equal to 60	Code 1	B	4/17/2017	4/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1708184	92054	E	DB	P	1"		Less than or Equal to 60	Code 1	B	4/18/2017	4/18/2017	1		82.932	
1709145	92024	E	DB	P	1"	36	Less than or Equal to 60	Code 1	B	4/27/2017	4/27/2017	1		26.150	
1709209	92127	E	DB	P	1"	328	Less than or Equal to 60	Code 1	B	4/28/2017	4/28/2017	1		29.885	
1709268	92127	E	DB	P	1"	340	Less than or Equal to 60	Code 1	B	4/29/2017	4/29/2017	1		50.432	
1709328	92024	E	DB	P	1 1/4"	328	Less than or Equal to 60	Code 1	B	5/1/2017	5/1/2017	1		37.152	
1709449	92009	E	MB	P	2"	17	Less than or Equal to 60	Code 1	B	5/2/2017	5/2/2017	1		275.245	
1709544	92014	E	DB	P	1"	436	Less than or Equal to 60	Code 1	B	5/3/2017	5/3/2017	1		22.788	
1709990	92075	E	DB	P	1/2" IPS	544	Less than or Equal to 60	Code 1	B	5/10/2017	5/10/2017	1		3.942	
1710287	92014	E	DB	P	1/2" IPS	280	Less than or Equal to 60	Code 1	B	5/12/2017	5/12/2017	1		1.817	
1710683	92009	E	DB	P	1/2" CTS	532	Less than or Equal to 60	Code 1	B	5/17/2017	5/17/2017	1		3.296	
1711671	92056	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	5/31/2017	5/31/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1711823	92024	E	DB	P	1/2" CTS	521	Less than or Equal to 60	Code 1	B	6/1/2017	6/2/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712226	92014	E	MB	P	1 1/4"	485	Less than or Equal to 60	Code 1	B	6/7/2017	6/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712342	92014	E	DB	P	1"	605	Less than or Equal to 60	Code 1	B	6/8/2017	6/8/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712437	92008	E	MB	P	4"	7	Less than or Equal to 60	Code 1	B	6/9/2017	6/9/2017	1		100.821	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712453	92084	E	DB	P	1/2" CTS	533	Less than or Equal to 60	Code 1	B	6/9/2017	6/9/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712459	92014	E	DB	P	1/2" IPS	257	Less than or Equal to 60	Code 1	B	6/9/2017	6/9/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713101	92083	E	DB	P	1/2" IPS	522	Less than or Equal to 60	Code 1	B	6/19/2017	6/19/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713248	92024	E	DB	P	1"	10	Less than or Equal to 60	Code 1	B	6/20/2017	6/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713316	92007	E	MB	P	1 1/4"	474	Less than or Equal to 60	Code 1	B	6/21/2017	6/21/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713692	92056	E	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	B	6/27/2017	6/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714091	92057	E	DB	P	1"	318	Less than or Equal to 60	Code 1	B	6/30/2017	6/30/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714367	92130	E	DB	P	1"	10	Less than or Equal to 60	Code 1	B	7/6/2017	7/6/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714581	92014	E	DB	P	1/2" IPS	546	Less than or Equal to 60	Code 1	B	7/10/2017	7/10/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714758	92009	E	DB	P	1/2" CTS	80	Less than or Equal to 60	Code 1	B	7/12/2017	7/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715127	92083	E	DB	P	1 1/4"	391	Less than or Equal to 60	Code 1	B	7/18/2017	7/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715392	92057	E	DB	P	1/2" IPS	391	Less than or Equal to 60	Code 1	B	7/20/2017	7/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715656	92024	E	MB	PC	1 1/2"	871	Less than or Equal to 60	Code 1	B	7/24/2017	7/24/2017	1		23.342	
1715775	92084	E	DB	P	1/2" IPS	463	Less than or Equal to 60	Code 1	B	7/25/2017	7/25/2017	1		9.947	
1715912	92130	E	DB	P	1"	3	Less than or Equal to 60	Code 1	B	7/26/2017	7/26/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715950	92008	E	DB	P	1"		Less than or Equal to 60	Code 1	B	7/26/2017	7/26/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716088	92084	E	DB	P	1/2" CTS	439	Less than or Equal to 60	Code 1	B	7/27/2017	7/27/2017	1		1.263	
1716388	92024	E	DB	P	1"	727	Less than or Equal to 60	Code 1	B	8/1/2017	8/1/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716591	92054	E	DB	P	1/2" CTS	475	Less than or Equal to 60	Code 1	B	8/3/2017	8/3/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717231	92075	E	DB	P	1/2" IPS	811	Less than or Equal to 60	Code 1	B	8/3/2017	8/3/2017	1		2.279	
1717209	92014	E	DB	P	1/2" IPS	607	Less than or Equal to 60	Code 1	B	8/11/2017	8/11/2017	1		9.532	
1717216	92014	N	MB	P	2"	547	Less than or Equal to 60	Code 1	B	8/11/2017	8/12/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717319	92081	E	DB	P	1/2" CTS	331	Less than or Equal to 60	Code 1	B	8/14/2017	8/14/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717323	92081	E	DB	P	1/2" IPS	475	Less than or Equal to 60	Code 1	B	8/14/2017	8/14/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717329	92024	E	DB	P	1"	23	Less than or Equal to 60	Code 1	B	8/14/2017	8/14/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717394	92083	E	DB	P	1/2" CTS	463	Less than or Equal to 60	Code 1	B	8/15/2017	8/15/2017	1		11.466	
1717535	92009	E	DB	P	1"	10	Less than or Equal to 60	Code 1	B	8/16/2017	8/16/2017	1		47.069	
1717979	92091	E	DB	P	1/2" IPS	536	Less than or Equal to 60	Code 1	B	8/22/2017	8/22/2017	1		18.609	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
1718025	92057	E	DB	P	1/2" IPS	356	Less than or Equal to 60	Code 1	B	8/23/2017	8/23/2017	1		17.407	
1718227	92014	E	DB	P	1/2" CTS	548	Less than or Equal to 60	Code 1	B	8/24/2017	8/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1718402	92024	E	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	B	8/28/2017	8/28/2017	1		14.506	
1718532	92014	E	DB	P	1/2" IPS	548	Less than or Equal to 60	Code 1	B	8/29/2017	8/29/2017	1		7.046	
1718977	92054	E	MB	P	1 1/4"		Less than or Equal to 60	Code 1	B	9/5/2017	9/5/2017	1		4.618	
1719034	92083	E	DB	P	1"	500	Less than or Equal to 60	Code 1	B	9/6/2017	9/6/2017	1		1.109	
1719103	92008	E	DB	P	1/2" CTS	344	Less than or Equal to 60	Code 1	B	9/6/2017	9/6/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719161	92054	E	DB	P	1/2" CTS	452	Less than or Equal to 60	Code 1	B	9/7/2017	9/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719216	92024	E	DB	P	1/2" CTS	464	Less than or Equal to 60	Code 1	B	9/7/2017	9/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719764	92024	E	DB	P	1/2" CTS	716	Less than or Equal to 60	Code 1	B	9/15/2017	9/15/2017	1		5.250	
1720175	92084	E	DB	P	1/2" CTS	477	Less than or Equal to 60	Code 1	B	9/20/2017	9/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720340	92008	E	MB	P	2"	3	Less than or Equal to 60	Code 1	B	9/22/2017	9/22/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720386	92057	E	DB	P	1/2" CTS	513	Less than or Equal to 60	Code 1	B	9/24/2017	9/24/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720545	92091	E	DB	P	2"	86	Less than or Equal to 60	Code 1	B	9/25/2017	9/25/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720763	92084	E	DB	P	1/2" CTS	477	Less than or Equal to 60	Code 1	B	9/27/2017	9/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720816	92130	E	MB	P	2"	285	Less than or Equal to 60	Code 1	B	9/27/2017	9/27/2017	1		20.288	
1720827	92084	E	DB	P	1/2" CTS	477	Less than or Equal to 60	Code 1	B	9/27/2017	9/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721149	92083	E	DB	P	1"	717	Less than or Equal to 60	Code 1	B	9/29/2017	9/29/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721280	92014	E	DB	P	1/2" IPS	429	Less than or Equal to 60	Code 1	B	10/2/2017	10/2/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721454	92024	E	DB	P	1/2" CTS	537	Less than or Equal to 60	Code 1	B	10/4/2017	10/4/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721456	92024	E	MB	P	2"	357	Less than or Equal to 60	Code 1	B	10/4/2017	10/4/2017	1		134.598	
1721674	92084	E	DB	P	1/2" CTS	477	Less than or Equal to 60	Code 1	B	10/6/2017	10/6/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721677	92083	N	MB	P	1 1/4"	453	Less than or Equal to 60	Code 1	B	10/6/2017	10/7/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721820	92014	N	DB	P	1"	501	Less than or Equal to 60	Code 1	B	10/9/2017	10/9/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721879	92008	E	MB	P	2"	4	Less than or Equal to 60	Code 1	B	10/9/2017	10/9/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722077	92130	E	DB	P	1"	16	Less than or Equal to 60	Code 1	B	10/11/2017	10/11/2017	1		8.338	
1722344	92009	E	DB	P	1/2" CTS	237	Less than or Equal to 60	Code 1	B	10/13/2017	10/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722645	92083	E	DB	P	2"	633	Less than or Equal to 60	Code 1	B	10/17/2017	10/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722835	92008	E	DB	P	1"	12	Less than or Equal to 60	Code 1	B	10/18/2017	10/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723739	92057	E	DB	P	1/2" CTS	154	Less than or Equal to 60	Code 1	B	10/28/2017	10/28/2017	1		23.347	
1723907	92083	N	MB	P	2"	526	Less than or Equal to 60	Code 1	B	10/31/2017	10/31/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724185	92081	E	DB	P	1"	322	Less than or Equal to 60	Code 1	B	11/4/2017	11/4/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724873	92009	E	DB	P	1"	492	Less than or Equal to 60	Code 1	B	11/15/2017	11/15/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725095	92081	E	DB	P	1"	646	Less than or Equal to 60	Code 1	B	11/15/2017	11/15/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725525	92075	E	DB	P	1"	815	Less than or Equal to 60	Code 1	B	11/27/2017	11/27/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725618	92008	E	DB	P	1/2" CTS	479	Less than or Equal to 60	Code 1	B	11/28/2017	11/28/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726205	92024	E	DB	P	1/2" IPS	791	Less than or Equal to 60	Code 1	B	12/7/2017	12/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726467	92024	E	DB	P	1/2" CTS	503	Less than or Equal to 60	Code 1	B	12/12/2017	12/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726561	92057	E	MB	P	2"	4	Less than or Equal to 60	Code 1	B	12/13/2017	12/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726879	92057	E	DB	P	1/2" CTS	444	Less than or Equal to 60	Code 1	B	12/18/2017	12/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726916	92056	E	DB	P	1/2" CTS	336	Less than or Equal to 60	Code 1	B	12/19/2017	12/19/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727434	92007	E	DB	P	1"	828	Less than or Equal to 60	Code 1	B	12/28/2017	12/28/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700009	92064	N	DB	P	1/2" CTS	468	Less than or Equal to 60	Code 1	B	1/2/2017	1/2/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700240	92028	E	DB	P	1"	456	Less than or Equal to 60	Code 1	B	1/4/2017	1/4/2017	1		12.103	
1700404	92064	N	DB	P	1/2" IPS	548	Less than or Equal to 60	Code 1	B	1/6/2017	1/6/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1701612	92025	N	MB	P	1 1/4"	445	Less than or Equal to 60	Code 1	B	1/24/2017	1/25/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1702055	92024	E	DB	PC	3/4"		Less than or Equal to 60	Code 1	B	1/27/2017	1/27/2017	1		6.723	
1702273	92078	E	MB	P	2"	253	Less than or Equal to 60	Code 1	B	1/31/2017	1/31/2017	1		61.250	
1702571	92130	E	MB	P	2"		Less than or Equal to 60	Code 1	B	2/2/2017	2/2/2017	1		225.338	
1703790	92130	E	DB	P	1"	194	Less than or Equal to 60	Code 1	B	2/21/2017	2/21/2017	1		33.247	
1705008	92078	E	DB	P	1/2" IPS	119	Less than or Equal to 60	Code 1	B	3/7/2017	3/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705583	92129	E	MB	P	2"	470	Less than or Equal to 60	Code 1	B	3/13/2017	3/13/2017	1		31.558	
1705800	92082	E	DB	P	1/2" IPS	57	Less than or Equal to 60	Code 1	B	3/15/2017	3/15/2017	1		8.427	
1705990	92064	E	DB	P	1"	36	Less than or Equal to 60	Code 1	B	3/17/2017	3/17/2017	1		2.880	
1706214	92064	E	DB	P	1"	36	Less than or Equal to 60	Code 1	B	3/17/2017	3/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1707339	92026	E	DB	P	1"		Less than or Equal to 60	Code 1	B	4/4/2017	4/4/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1707425	92028	E	DB	P	1/2" IPS	339	Less than or Equal to 60	Code 1	B	4/5/2017	4/5/2017	1		1.971	
1707436	92064	E	MB	P	2"	207	Less than or Equal to 60	Code 1	B	4/5/2017	4/5/2017	1		38.575	
1707900	92129	E	MB	P	2"	123	Less than or Equal to 60	Code 1	B	4/13/2017	4/13/2017	1		32.744	
1707854	92084	E	MB	P	2"	495	Less than or Equal to 60	Code 1	B	4/14/2017	4/14/2017	1		23.218	
1708850	92064	E	DB	P	1"	172	Less than or Equal to 60	Code 1	B	4/25/2017	4/25/2017	1		2.168	
1709192	92026	E	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	B	4/28/2017	4/28/2017	1		11.328	
1709501	92083	E	DB	P	1/2" IPS	424	Less than or Equal to 60	Code 1	B	5/3/2017	5/3/2017	1		0.862	
1709607	92025	E	DB	P	1/2" IPS	1072	Less than or Equal to 60	Code 1	B	5/4/2017	5/4/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1710174	92127	E	DB	P	1"	138	Less than or Equal to 60	Code 1	B	5/10/2017	5/10/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1710450	92027	E	DB	P	1/2" CTS	712	Less than or Equal to 60	Code 1	B	5/15/2017	5/15/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713770	92027	E	DB	P	1/2" IPS	461	Less than or Equal to 60	Code 1	B	6/16/2017	6/16/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1713666	92028	N	MB	P	1 1/4"	558	Less than or Equal to 60	Code 1	B	6/26/2017	6/26/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714451	92054	E	DB	P	1"	17	Less than or Equal to 60	Code 1	B	7/7/2017	7/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715953	92069	E	DB	PC	3/4"	643	Less than or Equal to 60	Code 1	B	7/26/2017	7/26/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716311	92028	E	DB	P	1/2" CTS	499	Less than or Equal to 60	Code 1	B	7/31/2017	7/31/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716353	92069	E	DB	P	1/2" CTS	475	Less than or Equal to 60	Code 1	B	8/1/2017	8/1/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1716982	92128	E	DB	P	1/2" IPS	491	Less than or Equal to 60	Code 1	B	8/9/2017	8/9/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1717788	92027	E	DB	P	1/2" CTS	344	Less than or Equal to 60	Code 1	B	8/21/2017	8/21/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1718037	92029	E	DB	P	1/2" IPS	452	Less than or Equal to 60	Code 1	B	8/23/2017	8/23/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719302	92127	E	DB	P	1"	4	Less than or Equal to 60	Code 1	B	9/8/2017	9/8/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719466	92026	E	DB	P	1/2" CTS	416	Less than or Equal to 60	Code 1	B	9/12/2017	9/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1719517	92009	E	DB	P	1"	308	Less than or Equal to 60	Code 1	B	9/12/2017	9/12/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1720553	92064	E	DB	P	1"	345	Less than or Equal to 60	Code 1	B	9/25/2017	9/25/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721014	92128	E	DB	P	1/2" CTS	493	Less than or Equal to 60	Code 1	B	9/28/2017	9/28/2017	1		2.587	
1721284	92129	E	MB	P	2"	381	Less than or Equal to 60	Code 1	B	10/2/2017	10/2/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1721295	92064	E	DB	P	1/2" CTS	585	Less than or Equal to 60	Code 1	B	10/2/2017	10/2/2017	1		2.526	
1721572	92130	E	DB	P	1"	150	Less than or Equal to 60	Code 1	B	10/5/2017	10/5/2017	1		32.127	
1721759	92064	E	DB	P	1"	273	Less than or Equal to 60	Code 1	B	10/6/2017	10/6/2017	1		22.040	
1721821	92069	E	DB	P	1/2" CTS	537	Less than or Equal to 60	Code 1	B	10/9/2017	10/9/2017	1		0.647	
1722174	92129	E	DB	P	1/2" CTS	477	Less than or Equal to 60	Code 1	B	10/11/2017	10/11/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722271	92069	E	MB	P	3"	477	Less than or Equal to 60	Code 1	B	10/12/2017	10/12/2017	1		6.611	
1722364	92026	E	DB	P	1"	13	Less than or Equal to 60	Code 1	B	10/13/2017	10/13/2017	1		10.519	
1722615	92069	E	DB	P	1/2" CTS	729	Less than or Equal to 60	Code 1	B	10/17/2017	10/17/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1722906	92025	E	DB	P	1/2" CTS	370	Less than or Equal to 60	Code 1	B	10/19/2017	10/19/2017	1		13.401	
1722918	92064	E	DB	P	1/2" CTS	538	Less than or Equal to 60	Code 1	B	10/19/2017	10/19/2017	1		4.559	
1723867	92129	E	DB	P	1/2" CTS	454	Less than or Equal to 60	Code 1	B	10/30/2017	10/30/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723877	92069	E	MB	P	2"	8	Less than or Equal to 60	Code 1	B	10/30/2017	10/30/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724245	92069	E	DB	P	1 1/4"	370	Less than or Equal to 60	Code 1	B	11/6/2017	11/6/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724526	92064	E	DB	P	1"	44	Less than or Equal to 60	Code 1	B	11/9/2017	11/9/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725275	92026	E	DB	P	1/2" IPS	294	Less than or Equal to 60	Code 1	B	11/20/2017	11/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725237	92028	E	MB	P	2"	60	Less than or Equal to 60	Code 1	B	11/21/2017	11/21/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726051	92026	N	MB	P	1 1/4"	467	Less than or Equal to 60	Code 1	B	12/3/2017	12/3/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725948	92028	E	MB	P	3"	383	Less than or Equal to 60	Code 1	B	12/4/2017	12/4/2017	1		100.821	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726093	92027	N	DB	P	1/2" CTS	755	Less than or Equal to 60	Code 1	B	12/5/2017	12/6/2017	2		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726856	92064	E	DB	P	1/2" IPS	152	Less than or Equal to 60	Code 1	B	12/18/2017	12/18/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1727155	92064	E	DB	P	1 1/4"	516	Less than or Equal to 60	Code 1	B	12/23/2017	12/23/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700648	92056	N	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	B	1/10/2017	1/10/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1705595	92101	N	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	3/13/2017	3/13/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1706006	91941	E	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	B	3/18/2017	3/18/2017	1		18.609	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
1706853	92084	E	DB	P	1"		Less than or Equal to 60	Code 1	B	3/29/2017	3/29/2017	1		36.610	
1707626	92104	E	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	4/7/2017	4/7/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1712478	92027	E	DB	PC	3/4"		Less than or Equal to 60	Code 1	B	6/11/2017	6/11/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714059	92037	N	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	6/30/2017	6/30/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1714654	92008	N	DB	P	1"		Less than or Equal to 60	Code 1	B	7/11/2017	7/11/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1715194	92127	E	DB	PB	3/4"		Less than or Equal to 60	Code 1	B	7/17/2017	7/17/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1723057	92007	E	DB	Unknown	3/4"		Less than or Equal to 60	Code 1	B	10/20/2017	10/20/2017	1		19.504	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.
1724559	92057	N	DB	P	1/2" CTS		Less than or Equal to 60	Code 1	B	11/10/2017	11/10/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1724622	92021	E	DB	PC	3/4"		Less than or Equal to 60	Code 1	B	11/11/2017	11/11/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1725205	92037	E	DB	P	1/2" IPS		Less than or Equal to 60	Code 1	B	11/20/2017	11/20/2017	1		18.609	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726035	92075	E	DB	PC	3/4"		Less than or Equal to 60	Code 1	B	12/5/2017	12/5/2017	1		21.215	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1726402	91950	E	DB	Unknown	3/4"		Less than or Equal to 60	Code 1	B	12/11/2017	12/11/2017	1		19.504	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.
1708690	92037	N	MB	P	2"	448	Less than or Equal to 60	Code 2	B	4/24/2017	7/18/2017	86	0.2988	25.697	
1706325	92009	E	DB	P	1/2" CTS	46	Less than or Equal to 60	Code 2	B	3/22/2017	4/10/2017	20	0.0089	0.178	
1700020	92008	N	DB	P	1/2" CTS		Less than or Equal to 60	Code 2	B	1/2/2017	1/2/2017	1	0.0089	0.009	
1700809	92009	N	DB	P	1/2" CTS		Less than or Equal to 60	Code 2	B	1/12/2017	1/12/2017	1	0.0089	0.009	
1703340	92067	N	DB	P	1"		Less than or Equal to 60	Code 2	B	2/14/2017	2/14/2017	1	0.0089	0.009	
1709604	92054	N	DB	P	1/2" CTS		Less than or Equal to 60	Code 2	B	5/4/2017	5/4/2017	1	0.0089	0.009	
1715174	92008	N	DB	P	1/2" CTS		Less than or Equal to 60	Code 2	B	7/18/2017	7/18/2017	1	0.0089	0.009	
1718103	92029	N	DB	P	1/2" CTS		Less than or Equal to 60	Code 2	B	8/23/2017	8/24/2017	2	0.0089	0.018	
1706508	92104	N	DB	PC	3/4"	747	Less than or Equal to 60	Code 3	B	3/24/2017	3/24/2017	1	0.0276	0.028	
													Sum Total	**9,142**	

SDG&E, June 15, 2018

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 2018 June Report

Appendix 4; Rev. 03/31/18

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	N/A	3/4	35	320	0.003	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	2	27	320	0.014	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	4	58	320	0.123	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	6	3	320	0.014	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	8	24	320	0.203	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	10	36	320	0.476	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	16	4,089	320	138.410	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1	23	320	0.003	Abandoned HP Pipe
N/A	SDG&E Territory	N/A	1/2	192	55	0.001	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	1	1,489	55	0.038	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	1 1/4	4,864	55	0.196	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	1 1/2	3,769	55	0.219	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	2	45,597	55	4.709	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	3	29,135	55	6.770	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	4	1,316	55	0.544	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	6	776	55	0.721	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	10	64	55	0.165	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	12	21	55	0.078	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	16	118	55	0.780	Abandoned MP Pipe
N/A	SDG&E Territory	N/A	1/2	53,919	55	0.348	Abandoned MP Service
N/A	SDG&E Territory	N/A	3/4	19,737	55	0.287	Abandoned MP Service
N/A	SDG&E Territory	N/A	1	3,773	55	0.097	Abandoned MP Service
N/A	SDG&E Territory	N/A	1 1/4	4,299	55	0.173	Abandoned MP Service
N/A	SDG&E Territory	N/A	1 1/2	1,579	55	0.092	Abandoned MP Service
N/A	SDG&E Territory	N/A	2	1,148	55	0.119	Abandoned MP Service
N/A	SDG&E Territory	N/A	3	141	55	0.033	Abandoned MP Service
N/A	SDG&E Territory	N/A	4	2	55	0.001	Abandoned MP Service
N/A	SDG&E Territory	250	N/A	N/A	N/A	0.672	Distribution Odor Intensity Tests
N/A	92108	1	N/A	N/A	N/A	97.600	Tie-in project
N/A	91910	1	N/A	N/A	N/A	13.600	Pipe segment replacement
N/A	91942	1	N/A	N/A	N/A	95.800	Tie-in project
N/A	91945	2	N/A	N/A	N/A	126.400	Tie-in project
N/A	92028	1	N/A	N/A	N/A	86.652	Blowdown to maintain odorant level

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	92555	1	N/A	N/A	N/A	77.000	Valve replacement
					Sum Total	**652**	

SDG&E, June 15, 2018

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 2018 June Report

Appendix 4; Rev. 03/31/18

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 15, 2018

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 2018 June Report

Appendix 4; Rev. 03/31/18

Notes:

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

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

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

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

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)	
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)		

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)	
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.	

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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	

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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.

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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.

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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.

Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
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	