

 <p>U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration</p>	<p><b>ANNUAL REPORT FOR CALENDAR YEAR 2011 NATURAL OR OTHER GAS TRANSMISSION and GATHERING SYSTEMS</b></p>	<p><b>Report Submission Type</b></p> <p style="text-align: center;"><b>INITIAL</b></p>
<p>A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2137-0522. Public reporting for this collection of information is estimated to be approximately 22 hours per response, including the time for reviewing instructions, gathering the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, PHMSA, Office of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590.</p> <p style="text-align: center;"><b>Important:</b> Please read the separate instructions for completing this form before you begin.</p>		
<p><b>PART A - OPERATOR INFORMATION</b></p>		<p>DOT USE ONLY      <b>20120644 - 25210</b></p>
<p>1. OPERATOR'S 5 DIGIT IDENTIFICATION NUMBER (OPID)</p> <p style="text-align: center;"><b>13840</b></p>	<p>2. NAME OF COMPANY OR ESTABLISHMENT: <b>NORTHWEST NATURAL GAS CO</b></p> <p>IF SUBSIDIARY, NAME OF PARENT:</p>	
<p>3. INDIVIDUAL WHERE ADDITIONAL INFORMATION MAY BE OBTAINED:</p> <p>Name: <b>Kerry Shampine</b></p> <p>Title: <b>Manager, Code Compliance</b></p> <p>Email Address: <b>kerry.shampine@nwnatural.com</b></p> <p>Telephone Number: <b>(503) 226-4211</b></p>	<p>4. HEADQUARTERS ADDRESS:</p> <p><b>NW Natural</b> Company Name</p> <p><b>220 N.W. SECOND AVENUE</b> Street Address</p> <p>State: <b>OR</b> Zip Code: <b>97209</b></p> <p><b>(503) 226-4211</b> Telephone Number</p> <div style="text-align: right; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p><b>RECEIVED</b> <b>MAR 15 2012</b> State of Washington UTC Pipeline Safety Program</p> </div>	
<p>5. THIS REPORT PERTAINS TO THE FOLLOWING COMMODITY GROUP: <i>(Select Commodity Group based on the predominant gas carried and complete the report for that Commodity Group. File a separate report for each Commodity Group included in this OPID.)</i></p> <p><b>Natural Gas</b></p>		
<p>6. CHARACTERIZE THE PIPELINES AND/OR PIPELINE FACILITIES COVERED BY THIS OPID AND COMMODITY GROUP WITH RESPECT TO COMPLIANCE WITH PHMSA'S INTEGRITY MANAGEMENT PROGRAM REGULATIONS (49 CFR 192 Subpart O).</p> <p>Portions of SOME OR ALL of the pipelines and/or pipeline facilities covered by this OPID and Commodity Group are included in an Integrity Management Program subject to 49 CFR 192. If this box is checked, complete all PARTs of this form in accordance with PART A, Question 8.</p>		
<p>7. FOR THE DESIGNATED "COMMODITY GROUP", THE PIPELINES AND/OR PIPELINE FACILITIES INCLUDED WITHIN THIS OPID ARE: <i>(Select one or both)</i></p> <p>INTERstate pipeline - List all of the States in which INTERstate pipelines and/or pipeline facilities included under this OPID exist: etc.</p> <p>INTRAstimate pipeline - List all of the States in which INTRAstimate pipelines and/or pipeline facilities included under this OPID exist: <b>OREGON, WASHINGTON</b> etc.</p>		



8. DOES THIS REPORT REPRESENT A CHANGE FROM LAST YEAR'S FINAL REPORTED NUMBERS FOR ONE OR MORE OF THE FOLLOWING PARTS: PART B, D, E, H, I, J, K, or L? (For calendar year 2010 reporting or if this is a first-time Report for an operator or OPID, Commodity Group(s), or pipelines and/or pipeline facilities, select the first box only. For subsequent years' reporting, select either No or one or both of the Yes choices.)

- This report is **FOR CALENDAR YEAR 2010** reporting or is a **FIRST-TIME REPORT** and, therefore, *the remaining choices in this Question 8 do not apply*. Complete all remaining PARTS of this form as applicable
- NO, there are **NO CHANGES** from last year's final reported information for PARTs B, D, E, H, I, J, K, or L. Complete PARTs A, C, M, and N, along with PARTs F, G, and O when applicable.
- YES, this report represents a **CHANGE FROM LAST YEAR'S FINAL REPORTED INFORMATION** for one or more of PARTs B, D, E, H, I, J, K, or L **due to corrected information**; however, *the pipelines and/or pipeline facilities and operations are the same* as those which were covered under last year's report. Complete PARTs A, C, M, and N, along with only those other PARTs which changed (including PARTs B, F, G, and O when applicable).
- YES, this report represents a **CHANGE FROM LAST YEAR'S FINAL REPORTED INFORMATION** for PARTs B, D, E, H, I, J, K, or L because of one or more of the following **change(s) in pipelines and/or pipeline facilities and/or operations** from those which were covered under last year's report. Complete PARTs A, C, M, and N, along with only those other PARTs which changed (including PARTs B, F, G, and O when applicable). (Select all reasons for these changes from the following list)
- Merger of companies and/or operations, acquisition of pipelines and/or pipeline facilities
  - Divestiture of pipelines and/or pipeline facilities
  - New construction or new installation of pipelines and/or pipeline facilities
  - Conversion to service, change in commodity transported, or a change in MAOP (maximum allowable operating pressure)
  - Abandonment of existing pipelines and/or pipeline facilities
  - Change in HCA's identified, HCA Segments, or other changes to Operator's Integrity Management Program
  - Change in OPID
- Other – Describe: , false



**For the designated Commodity Group, complete PARTs B, C, D, and E one time for all pipelines and/or pipeline facilities – both INTERstate and INTRAsate - included within this OPID.**

<b>PART B – TRANSMISSION PIPELINE HCA MILES</b>	
	Number of HCA Miles in the IMP Program
<b>Onshore</b>	196.2
<b>Offshore</b>	0
<b>Total Miles</b>	196.2

<b>PART C - VOLUME TRANSPORTED IN TRANSMISSION PIPELINES (ONLY) IN MILLION SCF PER YEAR (excludes Transmission lines of Gas Distribution systems)</b>	<b>Check this box and proceed to PART D without completing this PART C if this report only includes gathering pipelines or transmission lines of gas distribution systems.</b>	
	<b>Onshore</b>	<b>Offshore</b>
Natural Gas		
Propane Gas		
Synthetic Gas		
Hydrogen Gas		
Other Gas - Name: Y		

<b>PART D - MILES OF STEEL PIPE BY CORROSION PROTECTION</b>					
	Cathodically protected		Cathodically unprotected		Total Miles
	Bare	Coated	Bare	Coated	
<b>Transmission</b>					
Onshore	0	616.7	0	0	616.7
Offshore	0	0	0	0	0
Subtotal Transmission	0	616.7	0	0	616.7
<b>Gathering</b>					
Onshore Type A	0	0	0	0	0
Onshore Type B	0	0	0	0	0
Offshore	0	0	0	0	0
Subtotal Gathering	0	0	0	0	0
<b>Total Miles</b>	0	616.7	0	0	616.7



<b>PART E - MILES OF non-STEEL PIPE BY TYPE AND LOCATION</b>					
	Cast Iron Pipe	Wrought Iron Pipe	Plastic Pipe	Other Pipe	Total Miles
<b>Transmission</b>					
Onshore	0	0	0	0	0
Offshore	0	0	0	0	0
Subtotal Transmission	0	0	0	0	0
<b>Gathering</b>					
Onshore Type A	0	0	0	0	0
Onshore Type B	0	0	0	0	0
Offshore	0	0	0	0	0
Subtotal Gathering	0	0	0	0	0
<b>Total Miles</b>	0	0	0	0	0





***For the designated Commodity Group, complete PARTs F and G one time for all INTERstate pipelines and/or pipeline facilities included within this OPID and multiple times as needed for the designated Commodity Group for each State in which INTRAsstate pipelines and/or pipeline facilities included within this OPID exist. Each time these sections are completed, designate the State to which the data applies for INTRAsstate pipelines and/or pipeline facilities, or that it applies to all INTERstate pipelines included within this Commodity Group and OPID.***

<b>PARTs F and G</b>
The data reported in these PARTs F and G applies to: <i>(select only one)</i>

<b>PART F - INTEGRITY INSPECTIONS CONDUCTED AND ACTIONS TAKEN BASED ON INSPECTION</b>	
<b>INTRASTATE pipelines/pipeline facilities OREGON</b>	
<b>1. MILEAGE INSPECTED IN CALENDAR YEAR USING THE FOLLOWING IN-LINE INSPECTION (ILI) TOOLS</b>	
a. Corrosion or metal loss tools	0
b. Dent or deformation tools	0
c. Crack or long seam defect detection tools	0
d. Any other internal inspection tools	9.8
e. Total tool mileage inspected in calendar year using in-line inspection tools. (Lines a + b + c + d )	9.8
<b>2. ACTIONS TAKEN IN CALENDAR YEAR BASED ON IN-LINE INSPECTIONS</b>	
a. Based on ILI data, total number of anomalies excavated in calendar year because they met the operator's criteria for excavation.	15
b. Total number of anomalies repaired in calendar year that were identified by ILI based on the operator's criteria, both within an HCA Segment and outside of an HCA Segment.	15
c. Total number of conditions repaired WITHIN AN HCA SEGMENT meeting the definition of:	15
1. "Immediate repair conditions" [192.933(d)(1)]	8
2. "One-year conditions" [192.933(d)(2)]	1
3. "Monitored conditions" [192.933(d)(3)]	6
4. Other "Scheduled conditions" [192.933(c)]	0
<b>3. MILEAGE INSPECTED AND ACTIONS TAKEN IN CALENDAR YEAR BASED ON PRESSURE TESTING</b>	
a. Total mileage inspected by pressure testing in calendar year.	0
b. Total number of pressure test failures (ruptures and leaks) repaired in calendar year, both within an HCA Segment and outside of an HCA Segment.	0
c. Total number of pressure test ruptures (complete failure of pipe wall) repaired in calendar year WITHIN AN HCA SEGMENT.	0
d. Total number of pressure test leaks (less than complete wall failure but including escape of test medium) repaired in calendar year WITHIN AN HCA SEGMENT.	0
<b>4. MILEAGE INSPECTED AND ACTIONS TAKEN IN CALENDAR YEAR BASED ON DA (Direct Assessment methods)</b>	
a. Total mileage inspected by each DA method in calendar year.	9.6
1. ECDA	9.6
2. ICDA	0
3. SCCDA	0
b. Total number of anomalies identified by each DA method and repaired in calendar year based on the operator's criteria, both within an HCA Segment and outside of an HCA Segment.	10
1. ECDA	10
2. ICDA	0
3. SCCDA	0
c. Total number of conditions repaired in calendar year WITHIN AN HCA SEGMENT meeting the definition of:	10
1. "Immediate repair conditions" [192.933(d)(1)]	0
2. "One-year conditions" [192.933(d)(2)]	0



3. "Monitored conditions" [192.933(d)(3)]	10
4. Other "Scheduled conditions" [192.933(c)]	0
<b>5. MILEAGE INSPECTED AND ACTIONS TAKEN IN CALENDAR YEAR BASED ON OTHER INSPECTION TECHNIQUES</b>	
a. Total mileage inspected by inspection techniques other than those listed above in calendar year.	0
b. Total number of anomalies identified by other inspection techniques and repaired in calendar year based on the operator's criteria, both within an HCA Segment and outside of an HCA Segment.	0
c. Total number of conditions repaired in calendar year WITHIN AN HCA SEGMENT meeting the definition of:	0
1. "Immediate repair conditions" [192.933(d)(1)]	0
2. "One-year conditions" [192.933(d)(2)]	0
3. "Monitored conditions" [192.933(d)(3)]	0
4. Other "Scheduled conditions" [192.933(c)]	0
<b>6. TOTAL MILEAGE INSPECTED (ALL METHODS) AND ACTIONS TAKEN IN CALENDAR YEAR</b>	
a. Total mileage inspected in calendar year. (Lines 1.e + 3.a + 4.a.1 + 4.a.2 + 4.a.3 + 5.a)	19.4
b. Total number of anomalies repaired in calendar year both within an HCA Segment and outside of an HCA Segment. (Lines 2.b + 3.b + 4.b.1 + 4.b.2 + 4.b.3 + 5.b)	25
c. Total number of conditions repaired in calendar year WITHIN AN HCA SEGMENT. (Lines 2.c.1 + 2.c.2 + 2.c.3 + 2.c.4 + 3.c + 3.d + 4.c.1 + 4.c.2 + 4.c.3 + 4.c.4 + 5.c.1 + 5.c.2 + 5.c.3 + 5.c.4)	25
<b>PART G-- MILES OF BASELINE ASSESSMENTS AND REASSESSMENTS COMPLETED IN CALENDAR YEAR (HCA Segment miles ONLY)</b>	
a. Baseline assessment miles completed during the calendar year.	0
b. Reassessment miles completed during the calendar year.	20.4
c. Total assessment and reassessment miles completed during the calendar year.	20.4

<b>PART F - INTEGRITY INSPECTIONS CONDUCTED AND ACTIONS TAKEN BASED ON INSPECTION</b>	
<b>INTRASTATE pipelines/pipeline facilities WASHINGTON</b>	
<b>1. MILEAGE INSPECTED IN CALENDAR YEAR USING THE FOLLOWING IN-LINE INSPECTION (ILI) TOOLS</b>	
a. Corrosion or metal loss tools	0
b. Dent or deformation tools	0
c. Crack or long seam defect detection tools	0
d. Any other internal inspection tools	0
e. Total tool mileage inspected in calendar year using in-line inspection tools. (Lines a + b + c + d)	0
<b>2. ACTIONS TAKEN IN CALENDAR YEAR BASED ON IN-LINE INSPECTIONS</b>	
a. Based on ILI data, total number of anomalies excavated in calendar year because they met the operator's criteria for excavation.	0
b. Total number of anomalies repaired in calendar year that were identified by ILI based on the operator's criteria, both within an HCA Segment and outside of an HCA Segment.	0
c. Total number of conditions repaired WITHIN AN HCA SEGMENT meeting the definition of:	0
1. "Immediate repair conditions" [192.933(d)(1)]	0
2. "One-year conditions" [192.933(d)(2)]	0
3. "Monitored conditions" [192.933(d)(3)]	0
4. Other "Scheduled conditions" [192.933(c)]	0
<b>3. MILEAGE INSPECTED AND ACTIONS TAKEN IN CALENDAR YEAR BASED ON PRESSURE TESTING</b>	
a. Total mileage inspected by pressure testing in calendar year.	0
b. Total number of pressure test failures (ruptures and leaks) repaired in calendar year, both within an HCA Segment and outside of an HCA Segment.	0
c. Total number of pressure test ruptures (complete failure of pipe wall) repaired in calendar year WITHIN AN HCA SEGMENT.	0
d. Total number of pressure test leaks (less than complete wall failure but including escape of test medium) repaired in calendar year WITHIN AN HCA SEGMENT.	0



<b>4. MILEAGE INSPECTED AND ACTIONS TAKEN IN CALENDAR YEAR BASED ON DA (Direct Assessment methods)</b>	
a. Total mileage inspected by each DA method in calendar year.	3.4
1. ECDA	3.4
2. ICDA	0
3. SCCDA	0
b. Total number of anomalies identified by each DA method and repaired in calendar year based on the operator's criteria, both within an HCA Segment and outside of an HCA Segment.	4
1. ECDA	4
2. ICDA	0
3. SCCDA	0
c. Total number of conditions repaired in calendar year WITHIN AN HCA SEGMENT meeting the definition of:	4
1. "Immediate repair conditions" [192.933(d)(1)]	0
2. "One-year conditions" [192.933(d)(2)]	0
3. "Monitored conditions" [192.933(d)(3)]	4
4. Other "Scheduled conditions" [192.933(c)]	0
<b>5. MILEAGE INSPECTED AND ACTIONS TAKEN IN CALENDAR YEAR BASED ON OTHER INSPECTION TECHNIQUES</b>	
a. Total mileage inspected by inspection techniques other than those listed above in calendar year.	0
b. Total number of anomalies identified by other inspection techniques and repaired in calendar year based on the operator's criteria, both within an HCA Segment and outside of an HCA Segment.	0
c. Total number of conditions repaired in calendar year WITHIN AN HCA SEGMENT meeting the definition of:	0
1. "Immediate repair conditions" [192.933(d)(1)]	0
2. "One-year conditions" [192.933(d)(2)]	0
3. "Monitored conditions" [192.933(d)(3)]	0
4. Other "Scheduled conditions" [192.933(c)]	0
<b>6. TOTAL MILEAGE INSPECTED (ALL METHODS) AND ACTIONS TAKEN IN CALENDAR YEAR</b>	
a. Total mileage inspected in calendar year. (Lines 1.e + 3.a + 4.a.1 + 4.a.2 + 4.a.3 + 5.a)	3.4
b. Total number of anomalies repaired in calendar year both within an HCA Segment and outside of an HCA Segment. (Lines 2.b + 3.b + 4.b.1 + 4.b.2 + 4.b.3 + 5.b)	4
c. Total number of conditions repaired in calendar year WITHIN AN HCA SEGMENT. (Lines 2.c.1 + 2.c.2 + 2.c.3 + 2.c.4 + 3.c + 3.d + 4.c.1 + 4.c.2 + 4.c.3 + 4.c.4 + 5.c.1 + 5.c.2 + 5.c.3 + 5.c.4)	4
<b>PART G— MILES OF BASELINE ASSESSMENTS AND REASSESSMENTS COMPLETED IN CALENDAR YEAR (HCA Segment miles ONLY)</b>	
a. Baseline assessment miles completed during the calendar year.	0
b. Reassessment miles completed during the calendar year.	0
c. Total assessment and reassessment miles completed during the calendar year.	0



**For the designated Commodity Group, complete PARTs H, I, J, K, L, and M covering INTERstate pipelines and/or pipeline facilities for each State in which INTERstate systems exist within this OPID and again covering INTRAstate pipelines and/or pipeline facilities for each State in which INTRAstate systems exist within this OPID.**

PARTs H, I, J, K, L and M									
The data reported in these PARTs H, I, J, K, L and M applies to:									
INTRASTATE pipelines/pipeline facilities OREGON									
PART H - MILES OF TRANSMISSION PIPE BY NOMINAL PIPE SIZE (NPS)									
Onshore	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"
	1.6	70.3	57.8	87.3	188.6	0	106	0	13.6
	22"	24"	26"	28"	30"	32"	34"	36"	38"
	0	88.1	0	0	0	0	0	0	0
	40"	42"	44"	46"	48"	50"	52"	54"	56"
	0	0	0	0	0	0	0	0	0
	58" and over	Additional Sizes and Miles (Size – Miles); 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0;							
0									
613.3	Total Miles of Onshore Pipe – Transmission								
Offshore	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"
	22"	24"	26"	28"	30"	32"	34"	36"	38"
	40"	42"	44"	46"	48"	50"	52"	54"	56"
	58" and over	Additional Sizes and Miles (Size – Miles); - : - : - : - : - : - : - : - :							
	Total Miles of Offshore Pipe – Transmission								





<b>PART I - MILES OF GATHERING PIPE BY NOMINAL PIPE SIZE (NPS)</b>										
<b>Onshore Type A</b>	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"	
	22"	24"	26"	28"	30"	32"	34"	36"	38"	
	40"	42"	44"	46"	48"	50"	52"	54"	56"	58" and over
Additional Sizes and Miles (Size – Miles);										
Total Miles of Onshore Type A Pipe – Gathering										
<b>Onshore Type B</b>	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"	
	22"	24"	26"	28"	30"	32"	34"	36"	38"	
	40"	42"	44"	46"	48"	50"	52"	54"	56"	58" and over
Additional Sizes and Miles (Size – Miles);										
Total Miles of Onshore Type B Pipe – Gathering										
<b>Offshore</b>	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"	
	22"	24"	26"	28"	30"	32"	34"	36"	38"	
	40"	42"	44"	46"	48"	50"	52"	54"	56"	58" and over
Additional Sizes and Miles (Size – Miles);										
Total Miles of Offshore Pipe – Gathering										
<b>PART J – MILES OF PIPE BY DECADE INSTALLED</b>										
<b>Decade Pipe Installed</b>	Pre-40 or Unknown	1940 - 1949	1950 - 1959	1960 - 1969	1970 - 1979	1980 - 1989				
<b>Transmission</b>										
Onshore	0	0	34.7	281.6	53.4	73				
Offshore										
Subtotal Transmission	0	0	34.7	281.6	53.4	73				
<b>Gathering</b>										
Onshore Type A										
Onshore Type B										
Offshore										
Subtotal Gathering										



<b>Total Miles</b>	0	0	34.7	281.6	53.4	73
<b>Decade Pipe Installed</b>	1990 - 1999	2000 - 2009	2010 - 2019			Total Miles
<b>Transmission</b>						
Onshore	59.6	105.7	5.3			613.3
Offshore						
Subtotal Transmission	59.6	105.7	5.3			613.3
<b>Gathering</b>						
Onshore Type A						
Onshore Type B						
Offshore						
Subtotal Gathering						
<b>Total Miles</b>	59.6	105.7	5.3			613.3

**PART K- MILES OF TRANSMISSION PIPE BY SPECIFIED MINIMUM YIELD STRENGTH**

ONSHORE	CLASS LOCATION				Total Miles
	Class 1	Class 2	Class 3	Class 4	
Less than 20% SMYS	0	0	0	0	0
Greater than or equal to 20% SMYS but less than 30% SMYS	17.7	6.1	149.4	2.9	176.1
Greater than or equal to 30% SMYS but less than or equal to 40% SMYS	73.9	22.4	114.7	3.1	214.1
Greater than 40% SMYS but less than or equal to 50% SMYS	59.5	33.3	56	0	148.8
Greater than 50% SMYS but less than or equal to 60% SMYS	45.1	15.1	5.6	0	65.8
Greater than 60% SMYS but less than or equal to 72% SMYS	4.2	.4	0	0	4.6
Greater than 72% SMYS but less than or equal to 80% SMYS	0	0	0	0	0
Greater than 80% SMYS	0	0	0	0	0
Unknown percent of SMYS	.2	0	3.4	.3	3.9
All Non-Steel pipe	0	0	0	0	0
Onshore Totals	200.6	77.3	329.1	6.3	613.3
<b>OFFSHORE</b>	Class 1				
Less than or equal to 50% SMYS					
Greater than 50% SMYS but less than or equal to 72% SMYS					
Offshore Total					
<b>Total Miles</b>	200.6				613.3

**PART L - MILES OF PIPE BY CLASS LOCATION**

	Class Location				Total Class Location Miles	HCA Miles in the IMP Program
	Class 1	Class 2	Class 3	Class 4		



<b>Transmission</b>						
Onshore	200.7	77.3	329	6.3	613.3	196
Offshore	0	0	0	0	0	
Subtotal Transmission	200.7	77.3	329	6.3	613.3	
<b>Gathering</b>						
Onshore Type A						
Onshore Type B						
Offshore						
Subtotal Gathering						
<b>Total Miles</b>	200.7	77.3	329	6.3	613.3	196

**PART M – INCIDENTS, FAILURES, LEAKS, AND REPAIRS**

**PART M1 – ALL LEAKS ELIMINATED/REPAIRED IN CALENDAR YEAR; INCIDENTS & FAILURES IN HCA SEGMENTS IN CALENDAR YEAR**

Cause	Transmission Incidents, Leaks, and Failures					Gathering Leaks			
	Incidents in HCA Segments	Leaks				Failures in HCA Segments	Onshore Leaks		Offshore Leaks
		Onshore Leaks		Offshore Leaks			Type A	Type B	
		HCA	Non-HCA	HCA	Non-HCA				
External Corrosion	0	1	0	0	0				
Internal Corrosion	0	0	0	0	0				
Stress Corrosion Cracking	0	0	0	0	0				
Manufacturing	0	0	0	0	0				
Construction	0	0	0	0	0				
Equipment	0	0	0	0	0				
Incorrect Operations	0	0	0	0	0				
<b>Third Party Damage/Mechanical Damage</b>									
Excavation Damage	0	0	0	0	0				
Previous Damage (due to Excavation Activity)	0	0	0	0	0				
Vandalism (includes all Intentional Damage)	0	0	0	0	0				
<b>Weather Related/Other Outside Force</b>									
Natural Force Damage (all)	0	0	0	0	0				
Other Outside Force Damage (excluding Vandalism and all Intentional Damage)	0	0	0	0	0				
Other	0	0	0	0	0				
<b>Total</b>	0	1	0	0	0				

**PART M2 – KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR**

Transmission		Gathering	
Onshore	0	Onshore Type A	
OCS	0	Onshore Type B	
Subtotal Transmission	0	OCS	
		Subtotal Gathering	
<b>Total</b>		0	

**PART M3 – LEAKS ON FEDERAL LAND OR OCS REPAIRED OR SCHEDULED FOR REPAIR**

Transmission		Gathering	
Onshore	0	Onshore Type A	
OCS	0	Onshore Type B	
Subtotal Transmission	0	OCS	
		Subtotal Gathering	
<b>Total</b>		0	



**PARTs H, I, J, K, L and M**

The data reported in these PARTs H, I, J, K, L and M applies to:  
**INTRASTATE pipelines/pipeline facilities WASHINGTON**

**PART H - MILES OF TRANSMISSION PIPE BY NOMINAL PIPE SIZE (NPS)**

	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"	
	<b>Onshore</b>	0	0	3.4	0	0	0	0	0	0
22"		24"	26"	28"	30"	32"	34"	36"	38"	
0		0	0	0	0	0	0	0	0	
40"		42"	44"	46"	48"	50"	52"	54"	56"	
0		0	0	0	0	0	0	0	0	
58" and over		Additional Sizes and Miles (Size – Miles); 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0; 0 - 0;								
0										
3.4	Total Miles of Onshore Pipe – Transmission									
	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"	
<b>Offshore</b>	22"	24"	26"	28"	30"	32"	34"	36"	38"	
	40"	42"	44"	46"	48"	50"	52"	54"	56"	
	58" and over	Additional Sizes and Miles (Size – Miles); - : - : - : - : - : - : - : - : - :								
		Total Miles of Offshore Pipe – Transmission								





**PART I - MILES OF GATHERING PIPE BY NOMINAL PIPE SIZE (NPS)**

<b>Onshore Type A</b>	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"	
	22"	24"	26"	28"	30"	32"	34"	36"	38"	
	40"	42"	44"	46"	48"	50"	52"	54"	56"	58" and over
	Additional Sizes and Miles (Size – Miles);									
	Total Miles of Onshore Type A Pipe – Gathering									
<b>Onshore Type B</b>	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"	
	22"	24"	26"	28"	30"	32"	34"	36"	38"	
	40"	42"	44"	46"	48"	50"	52"	54"	56"	58" and over
	Additional Sizes and Miles (Size – Miles);									
	Total Miles of Onshore Type B Pipe – Gathering									
<b>Offshore</b>	NPS 4" or less	6"	8"	10"	12"	14"	16"	18"	20"	
	22"	24"	26"	28"	30"	32"	34"	36"	38"	
	40"	42"	44"	46"	48"	50"	52"	54"	56"	58" and over
	Additional Sizes and Miles (Size – Miles);									
	Total Miles of Offshore Pipe – Gathering									

**PART J – MILES OF PIPE BY DECADE INSTALLED**

Decade Pipe Installed	Pre-40 or Unknown	1940 - 1949	1950 - 1959	1960 - 1969	1970 - 1979	1980 - 1989
<b>Transmission</b>						
Onshore	0	0	3.4	0	0	0
Offshore						
Subtotal Transmission	0	0	3.4	0	0	0
<b>Gathering</b>						
Onshore Type A						
Onshore Type B						
Offshore						
Subtotal Gathering						



<b>Total Miles</b>	0	0	3.4	0	0	0	
<b>Decade Pipe Installed</b>	1990 - 1999	2000 - 2009	2010 - 2019				<b>Total Miles</b>
<b>Transmission</b>							
Onshore	0	0	0				3.4
Offshore							
Subtotal Transmission	0	0	0				3.4
<b>Gathering</b>							
Onshore Type A							
Onshore Type B							
Offshore							
Subtotal Gathering							
<b>Total Miles</b>	0	0	0				3.4

**PART K- MILES OF TRANSMISSION PIPE BY SPECIFIED MINIMUM YIELD STRENGTH**

ONSHORE	CLASS LOCATION				Total Miles
	Class 1	Class 2	Class 3	Class 4	
Less than 20% SMYS	0	0	0	0	0
Greater than or equal to 20% SMYS but less than 30% SMYS	0	0	3.4	0	3.4
Greater than or equal to 30% SMYS but less than or equal to 40% SMYS	0	0	0	0	0
Greater than 40% SMYS but less than or equal to 50% SMYS	0	0	0	0	0
Greater than 50% SMYS but less than or equal to 60% SMYS	0	0	0	0	0
Greater than 60% SMYS but less than or equal to 72% SMYS	0	0	0	0	0
Greater than 72% SMYS but less than or equal to 80% SMYS	0	0	0	0	0
Greater than 80% SMYS	0	0	0	0	0
Unknown percent of SMYS	0	0	0	0	0
All Non-Steel pipe	0	0	0	0	0
Onshore Totals	0	0	3.4	0	3.4
<b>OFFSHORE</b>	Class 1				
Less than or equal to 50% SMYS					
Greater than 50% SMYS but less than or equal to 72% SMYS					
Offshore Total					
<b>Total Miles</b>	0				3.4

**PART L - MILES OF PIPE BY CLASS LOCATION**

	Class Location				Total Class Location Miles	HCA Miles in the IMP Program
	Class 1	Class 2	Class 3	Class 4		



<b>Transmission</b>						
Onshore	0	0	3.4	0	3.4	.2
Offshore	0	0	0	0	0	
Subtotal Transmission	0	0	3.4	0	3.4	
<b>Gathering</b>						
Onshore Type A						
Onshore Type B						
Offshore						
Subtotal Gathering						
<b>Total Miles</b>	0	0	3.4	0	3.4	.2

**PART M – INCIDENTS, FAILURES, LEAKS, AND REPAIRS**

**PART M1 – ALL LEAKS ELIMINATED/REPAIRED IN CALENDAR YEAR; INCIDENTS & FAILURES IN HCA SEGMENTS IN CALENDAR YEAR**

Cause	Transmission Incidents, Leaks, and Failures					Gathering Leaks			
	Incidents in HCA Segments	Leaks				Failures in HCA Segments	Onshore Leaks		Offshore Leaks
		Onshore Leaks		Offshore Leaks			Type A	Type B	
		HCA	Non-HCA	HCA	Non-HCA				
External Corrosion									
Internal Corrosion									
Stress Corrosion Cracking									
Manufacturing									
Construction									
Equipment									
Incorrect Operations									
<b>Third Party Damage/Mechanical Damage</b>									
Excavation Damage									
Previous Damage (due to Excavation Activity)									
Vandalism (includes all Intentional Damage)									
<b>Weather Related/Other Outside Force</b>									
Natural Force Damage (all)									
Other Outside Force Damage (excluding Vandalism and all Intentional Damage)									
Other									
Total									

**PART M2 – KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR**

Transmission	Gathering
Onshore	Onshore Type A Onshore Type B
OCS	OCS
Subtotal Transmission	Subtotal Gathering
Total	

**PART M3 – LEAKS ON FEDERAL LAND OR OCS REPAIRED OR SCHEDULED FOR REPAIR**

Transmission	Gathering
Onshore	Onshore Type A Onshore Type B
OCS	OCS
Subtotal Transmission	Subtotal Gathering
Total	



**For the designated Commodity Group, complete PART N one time for all of the pipelines and/or pipeline facilities included within this OPID, and then also PART O if any portion(s) of the pipelines and/or pipeline facilities covered under this Commodity Group and OPID are included in an Integrity Management Program subject to 49 CFR 192.**

**PART N - PREPARER SIGNATURE (applicable to all PARTs A - M)**

**Dakota Duncan**

Preparer's Name (type or print)

**(503) 226-4211**

Telephone Number

**Code Compliance Specialist**

Preparer's Title

Facsimile Number

**dakota.duncan@nwnatural.com**

Preparer's E-mail Address

**PART O - CERTIFYING SIGNATURE (applicable only to PARTs B, F, G, and M1)**

**Grant M. Yoshihara**

Senior Executive Officer's signature certifying the information in PARTs B, F, G, and M as required by 49 U.S.C. 60109(f)

**(503) 226-4211**

Telephone Number

**Grant M. Yoshihara**

Senior Executive Officer's name certifying the information in PARTs B, F, G, and M as required by 49 U.S.C. 60109(f)

**Vice President, Utility Operations**

Senior Executive Officer's title certifying the information in PARTs B, F, G, and M as required by 49 U.S.C. 60109(f)

**grant.yoshihara@nwnatural.com**

Senior Executive Officer's E-mail Address





NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a civil penalty not to exceed 100,000 for each violation for each day that such violation persists except that the maximum civil penalty shall not exceed \$1,000,000 as provided in 49 USC 60122.

OMB NO: 2137-0522  
EXPIRATION DATE: 01/31/2014



U.S Department of Transportation  
Pipeline and Hazardous Materials Safety Administration

Form Type:

INITIAL

ID:

10155

(DOT use only)

20120885-15943

**ANNUAL REPORT FOR  
CALENDAR YEAR 2011  
GAS DISTRIBUTION SYSTEM**

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2137-0522. Public reporting for this collection of information is estimated to be approximately 16 hours per response, including the time for reviewing instructions, gathering the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, PHMSA, Office of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590.

**PART A - OPERATOR INFORMATION**

1. Name of Operator	NORTHWEST NATURAL GAS CO
2. LOCATION OF OFFICE (WHERE ADDITIONAL INFORMATION MAY BE OBTAINED)	
2a. Street Address	220 N.W SECOND AVE
2b. City and County	PORTLAND, MULTNOMAH
2c. State	OR
2d. Zip Code	97209
3. OPERATOR'S 5 DIGIT IDENTIFICATION NUMBER	13840
4. HEADQUARTERS NAME & ADDRESS	
4a. Street Address	220 N. W. SECOND AVENUE
4b. City and County	PORTLAND, MULTNOMAH
4c. State	OR
4d. Zip Code	97209
5. STATE IN WHICH SYSTEM OPERATES	WA

RECEIVED  
MAR 15 2012

UTC  
Pipeline Safety Program

**PART B - SYSTEM DESCRIPTION**

**1. GENERAL**

	STEEL				PLASTIC	CAST/ WROUGHT IRON	DUCTILE IRON	COPPER	OTHER	TOTAL
	UNPROTECTED		CATHODICALLY PROTECTED							
	BARE	COATED	BARE	COATED						
MILES OF MAIN	3.000	0.000	1.000	364.000	1327.000	0.000	0.000	0.000	0.000	1695.000
NO. OF SERVICES	2.000	0.000	0.000	4213.000	62555.000	0.000	0.000	0.000	0.000	66770.000



**2. MILES OF MAINS IN SYSTEM AT END OF YEAR**

MATERIAL	UNKNOWN	2" OR LESS	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8" THRU 12"	OVER 12"	TOTAL
STEEL	0.000	219.000	86.000	60.000	3.000	0.000	368.000
DUCTILE IRON	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COPPER	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAST/WROUGHT IRON	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PLASTIC PVC	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PLASTIC PE	0.000	1102.000	190.000	35.000	0.000	0.000	1327.000
PLASTIC ABS	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OTHER PLASTIC	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OTHER	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	1321.000	276.000	95.000	3.000	0.000	1695.000

**3. NUMBER OF SERVICES IN SYSTEM AT END OF YEAR**

**AVERAGE SERVICE LENGTH: 62**

MATERIAL	UNKNOWN	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8"	TOTAL
STEEL	0.000	4161.000	42.000	10.000	2.000	0.000	4215.000
DUCTILE IRON	0.000	0.000	0.000	0.000	0.000	0.000	0.000
COPPER	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CAST/WROUGHT IRON	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PLASTIC PVC	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PLASTIC PE	0.000	62331.000	205.000	9.000	5.000	0.000	62550.000
PLASTIC ABS	0.000	5.000	0.000	0.000	0.000	0.000	5.000
OTHER PLASTIC	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OTHER	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	0.000	66497.000	247.000	19.000	7.000	0.000	66770.000

**4. MILES OF MAIN AND NUMBER OF SERVICES BY DECADE OF INSTALLATION**

	UNKNOWN	PRE-1940	1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000-2009	2010-2019	TOTAL
MILES OF MAIN	0.000	0.000	0.000	27.000	125.000	104.000	190.000	717.000	516.000	16.000	1695.000
NUMBER OF SERVICES	3274.000	0.000	0.000	11.000	216.000	602.000	3271.000	29446.000	28273.000	1677.000	66770.000



**PART C - TOTAL LEAKS AND HAZARDOUS LEAKS ELIMINATED/REPAIRED DURING THE YEAR**

CAUSE OF LEAK	MAINS		SERVICES	
	TOTAL	HAZARDOUS	TOTAL	HAZARDOUS
CORROSION	0	0	1	0
NATURAL FORCES	0	0	0	0
EXCAVATION DAMAGE	13	0	36	0
OTHER OUTSIDE FORCE DAMAGE	0	0	0	0
MATERIAL OR WELDS	4	0	1	1
EQUIPMENT	0	0	0	0
INCORRECT OPERATIONS	0	0	0	0
OTHER	4	0	0	0

NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR : 1

**PART D - EXCAVATION DAMAGE**

NUMBER OF EXCAVATION DAMAGES: 67

NUMBER OF EXCAVATION TICKETS : 16134

**PART E-EXCESS FLOW VALUE(EFV) DATA**

NUMBER OF EFV'S INSTALLED THIS CALENDER YEAR ON SINGLE FAMILY RESIDENTIAL SERVICES: 580

ESTIMATED NUMBER OF EFV'S IN SYSTEM AT THE END OF YEAR: 30578

**PART F - LEAKS ON FEDERAL LAND**

TOTAL NUMBER OF LEAKS ON FEDERAL LAND REPAIRED OR SCHEDULED TO REPAIR: 0

**PART G-PERCENT OF UNACCOUNTED FOR GAS**

UNACCOUNTED FOR GAS AS A PERCENT OF TOTAL INPUT FOR THE 12 MONTHS ENDING JUNE 30 OF THE REPORTING YEAR.

INPUT FOR YEAR ENDING 6/30: .44%

**PART H - ADDITIONAL INFORMATION**

**PART I - PREPARER AND AUTHORIZED SIGNATURE**

Kerry Shampine, Manager, Code Compliance  
(Preparer's Name and Title)

(503) 226-4211  
(Area Code and Telephone Number)

kerry.shampine@hwnatural.com  
(Preparer's email address)

(Area Code and Facsimile Number)