

## TANKS 4.0.9d Emissions Report - Summary Format Tank Identification and Physical Characteristics

**Identification**

User Identification: Petro 49 Douglas Tank #1  
 City: Juneau  
 State: Alaska  
 Company: Petro 49, Inc.  
 Type of Tank: Internal Floating Roof Tank  
 Description: Douglas Terminal IFR Tank #1 at prorated ORL Gasoline Throughput

**Tank Dimensions**

Diameter (ft): 32.00  
 Volume (gallons): 8,293,255.00  
 Turnovers: 0.49  
 Self Supp. Roof? (y/n): N  
 No. of Columns: 1.00  
 Eff. Col. Diam. (ft): 0.70

**Paint Characteristics**

Internal Shell Condition: Light Rust  
 Shell Color/Shade: Gray/Light  
 Shell Condition: Good  
 Roof Color/Shade: Gray/Light  
 Roof Condition: Good

**Rim-Seal System**

Primary Seal: Vapor-mounted  
 Secondary Seal: Rim-mounted

**Deck Characteristics**

Deck Fitting Category: Typical  
 Deck Type: Bolted  
 Construction: Panel  
 Deck Seam: Panel: 5 x 7.5 Ft  
 Deck Seam Len. (ft): 265.40

**Deck Fitting/Status**

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam./Unbolted Cover, Ungasketed)	1
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Column Well (24-in. Diam./Built-Up Col.-Sliding Cover, Ungask.	1
Ladder Well (36-in. Diam./Sliding Cover, Ungasketed	1
Roof Leg or Hanger Well/Adjustable	10
Sample Pipe or Well (24-in. Diam./Silt Fabric Seal 10% Open	1
Stub Drain (1-in. Diameter)/Silt Fabric Seal 10% Open	9
Vacuum Breaker (10-in. Diam./Weighted Mech. Actuation, Gask.	1

Meteorological Data used in Emissions Calculations: Juneau, Alaska (Avg Atmospheric Pressure = 14.63 psia)

**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Liquid Contents of Storage Tank**

**Petro 49 Douglas Tank #1 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)		Vapor Pressure (psia)		Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Avg.	Min.	Max.						
Gasoline (RVP 11.5)	All	44.71	39.82	49.59	42.78	4.4914	N/A	N/A	66.0000			92.00	Option 4: RVP=11.5, ASTM Slope=3

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**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Individual Tank Emission Totals**

**Emissions Report for: Annual**

**Petro 49 Douglas Tank #1 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Components	Losses(lbs)					Total Emissions
	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss		
Gasoline (RVP 11.5)	418.34	24.34	1,669.80	281.12		2,393.60

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**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification: Petro 49 Juneau Tank #2  
 City: Juneau  
 State: Alaska  
 Company: Petro 49, Inc.  
 Type of Tank: Internal Floating Roof Tank  
 Description: Juneau Tank #2 at prorated ORL Based Gasoline Throughput

**Tank Dimensions**

Diameter (ft): 24.00  
 Volume (gallons): 101,514.00  
 Turnovers: 10.75  
 Self Supp. Roof? (y/n): N  
 No. of Columns: 1.00  
 Eff. Col. Diam. (ft): 0.70

**Paint Characteristics**

Internal Shell Condition: Light Rust  
 Shell Color/Shade: Gray/Light  
 Shell Condition: Good  
 Roof Color/Shade: Gray/Light  
 Roof Condition: Good

**Rim-Seal System**

Primary Seal: Vapor-mounted  
 Secondary Seal: Rim-mounted

**Deck Characteristics**

Deck Fitting Category: Typical  
 Deck Type: Bolted  
 Construction: Panel  
 Deck Seam: Panel: 5 x 7.5 Ft  
 Deck Seam Len. (ft): 149.29

**Deck Fitting/Status**

Quantity	Description
1	Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed
1	Automatic Gauge Float Well/Unbolted Cover, Ungasketed
1	Column Well (24-in. Diam.)/Built-Up Col.-Sliding Cover, Ungask.
1	Ladder Well (36-in. Diam.)/Sliding Cover, Ungasketed
9	Roof Leg or Hanger Well/Adjustable
1	Sample Pipe or Well (24-in. Diam.)/Silt Fabric Seal 10% Open
5	Stub Drain (1-in. Diameter)/Silt Fabric Seal 10% Open
1	Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.

Meteorological Data used in Emissions Calculations: Juneau, Alaska (Avg Atmospheric Pressure = 14.63 psia)

**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Liquid Contents of Storage Tank**

**Petro 49 Juneau Tank #2 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)		Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Avg.	Min.	Max.	Min.	Max.					
Gasoline (RVP 11.5)	All	44.71	39.82	49.59	42.78	4.4914	N/A	N/A	65.0000			92.00	Option 4: RVP=11.5, ASTM Slope=3	

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**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Individual Tank Emission Totals**

**Emissions Report for: Annual**

**Petro 49 Juneau Tank #2 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Components	Losses(lbs)					Total Emissions
	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss		
Gasoline (RVP 11.5)	313.76	8.82	1,594.33	158.13		2,075.04

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## TANKS 4.0.9d Emissions Report - Summary Format Tank Identification and Physical Characteristics

**Identification**

User Identification: Petro 49 Juneau Tank #3  
 City: Juneau  
 State: Alaska  
 Company: Petro 49, Inc.  
 Type of Tank: Internal Floating Roof Tank  
 Description: Juneau Tank #3 at prorated ORL Based Gasoline Throughput

**Tank Dimensions**

Diameter (ft): 24.00  
 Volume (gallons): 101,514.00  
 Turnovers: 10.75  
 Self Supp. Roof? (y/n): N  
 No. of Columns: 1.00  
 Eff. Col. Diam. (ft): 0.70

**Paint Characteristics**

Internal Shell Condition: Light Rust  
 Shell Color/Shade: Gray/Light  
 Shell Condition: Good  
 Roof Color/Shade: Gray/Light  
 Roof Condition: Good

**Rim-Seal System**

Primary Seal: Vapor-mounted  
 Secondary Seal: Rim-mounted

**Deck Characteristics**

Deck Fitting Category: Typical  
 Deck Type: Bolted  
 Construction: Panel  
 Deck Seam: Panel: 5 x 7.5 Ft  
 Deck Seam Len. (ft): 149.29

**Deck Fitting/Status**

Deck Fitting/Status	Quantity
Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	1
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Column Well (24-in. Diam.)/Built-Up Col.-Sliding Cover, Ungask.	1
Ladder Well (36-in. Diam.)/Sliding Cover, Ungasketed	1
Roof Leg or Hanger Well/Adjustable	9
Sample Pipe or Well (24-in. Diam.)/Slit Fabric Seal 10% Open	1
Stub Drain (1-in. Diameter)/Slit Fabric Seal 10% Open	1
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1

Meteorological Data used in Emissions Calculations: Juneau, Alaska (Avg Atmospheric Pressure = 14.63 psia)

**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Liquid Contents of Storage Tank**

**Petro 49 Juneau Tank #3 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)		Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Avg.	Min.	Max.	Min.	Max.					
Gasoline (RVP 11.5)	All	44.71	39.82	49.59	42.78	4.4914	N/A	N/A	65.0000			92.00	Option 4: RVP=11.5, ASTM Slope=3	

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**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Individual Tank Emission Totals**

**Emissions Report for: Annual**

**Petro 49 Juneau Tank #3 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Components	Losses(lbs)					Total Emissions
	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss		
Gasoline (RVP 11.5)	313.76	8.82	1,594.33	158.13		2,075.04

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## TANKS 4.0.9d Emissions Report - Summary Format Tank Identification and Physical Characteristics

**Identification**

User Identification: Petro 49 Juneau Tank #4  
 City: Juneau  
 State: Alaska  
 Company: Petro 49, Inc.  
 Type of Tank: Internal Floating Roof Tank  
 Description: Juneau Tank #4 at prorata ORL Based Gasoline Throughput

**Tank Dimensions**

Diameter (ft): 20.00  
 Volume (gallons): 98,700.00  
 Turnovers: 10.75  
 Self Supp. Roof? (y/n): N  
 No. of Columns: 1.00  
 Eff. Col. Diam. (ft): 0.70

**Paint Characteristics**

Internal Shell Condition: Light Rust  
 Shell Color/Shade: Gray/Light  
 Shell Condition: Good  
 Roof Color/Shade: Gray/Light  
 Roof Condition: Good

**Rim-Seal System**

Primary Seal: Vapor-mounted  
 Secondary Seal: Rim-mounted

**Deck Characteristics**

Deck Fitting Category: Typical  
 Deck Type: Bolted  
 Construction: Panel  
 Deck Seam: Panel: 5 x 7.5 Ft  
 Deck Seam Len. (ft): 103.67

**Deck Fitting/Status**

Access Hatch (24-in. Diam.)/Unbolted Cover, Ungasketed	Quantity
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Column Well (24-in. Diam.)/Built-Up Col.-Sliding Cover, Ungask.	1
Ladder Well (36-in. Diam.)/Sliding Cover, Ungasketed	1
Roof Leg or Hanger Well/Adjustable	8
Sample Pipe or Well (24-in. Diam.)/Silt Fabric Seal 10% Open	1
Stub Drain (1-in. Diameter)/Silt Fabric Seal 10% Open	4
Vacuum Breaker (10-in. Diam.)/Weighted Mech. Actuation, Gask.	1

Meteorological Data used in Emissions Calculations: Juneau, Alaska (Avg Atmospheric Pressure = 14.63 psia)

**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Liquid Contents of Storage Tank**

**Petro 49 Juneau Tank #4 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)		Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Avg.	Min.	Max.	Min.	Max.					
Gasoline (RVP 11.5)	All	44.71	39.82	49.59	42.78	4.4914	N/A	N/A	66.0000			92.00	Option 4: RVP=11.5, ASTM Slope=3	

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**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Individual Tank Emission Totals**

**Emissions Report for: Annual**

**Petro 49 Juneau Tank #4 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Components	Losses (lbs)					Total Emissions
	Rim Seal Loss	Withdrawal Loss	Deck Fitting Loss	Deck Seam Loss		
Gasoline (RVP 11.5)	261.46	10.35	1,540.25	109.81		1,921.88

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**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification: Petro 49 Juneau Tank #6  
 City: Juneau  
 State: Alaska  
 Company: Petro 49, Inc.  
 Type of Tank: Internal Floating Roof Tank  
 Description: Juneau Tank #6 at prorated ORL Limit Gasoline Throughput

**Tank Dimensions**

Diameter (ft): 40.00  
 Volume (gallons): 375,984.00  
 Turnovers: 10.75  
 Self Supp. Roof? (y/n): N  
 No. of Columns: 1.00  
 Eff. Col. Diam. (ft): 0.70

**Paint Characteristics**

Internal Shell Condition: Light Rust  
 Shell Color/Shade: Gray/Light  
 Shell Condition: Good  
 Roof Color/Shade: Gray/Light  
 Roof Condition: Good

**Rim-Seal System**

Primary Seal: Vapor-mounted  
 Secondary Seal: Rim-mounted

**Deck Characteristics**

Deck Fitting Category:	Typical	
Deck Type:	Bolted	
Construction:	Panel	
Deck Seam:	Panel: 5 x 7.5 Ft	
Deck Seam Len. (ft):		414.69

**Deck Fitting/Status**

Access Hatch (24-in. Diam./Unbolted Cover, Ungasketed)	Quantity
Automatic Gauge Float Well/Unbolted Cover, Ungasketed	1
Column Well (24-in. Diam./Built-Up Col.-Sliding Cover, Ungask.	1
Ladder Well (36-in. Diam./Sliding Cover, Ungasketed	1
Roof Leg or Hanger Well/Adjustable	12
Sample Pipe or Well (24-in. Diam./Silt Fabric Seal 10% Open	1
Stub Drain (1-in. Diameter)/Silt Fabric Seal 10% Open	13
Vacuum Breaker (10-in. Diam./Weighted Mech. Actuation, Gask.	1

Meteorological Data used in Emissions Calculations: Juneau, Alaska (Avg Atmospheric Pressure = 14.63 psia)

**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Liquid Contents of Storage Tank**

**Petro 49 Juneau Tank #6 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)		Vapor Pressure (psia)		Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.	Avg.	Min.	Max.						
Gasoline (RVP 11.5)	All	44.71	39.82	49.59	42.78	4.4914	N/A	N/A	65.0000			92.00	Option 4: RVP=11.5, ASTM Slope=3

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**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Individual Tank Emission Totals**

**Emissions Report for: Annual**

**Petro 49 Juneau Tank #6 - Internal Floating Roof Tank**  
**Juneau, Alaska**

Components	Losses(lbs)					Total Emissions
	Rim Seal Loss	Withdrawl Loss	Deck Fitting Loss	Deck Seam Loss		
Gasoline (RVP 11.5)	522.93	19.39	1,792.21	439.26		2,773.78

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