Permits by Rule General Facilities Workbook

Version 3.0 - Workbook for Multiple Projects

This workbook is a tool provided for projects being authorized under Permits by Rule (PBR) 30 TAC §§ 106.261 and/or 106.262.

Instructions:
This workbook (in Excel format) is required for all PBR applications submitted under these rules. Please answer the questions and fill in emissions data in the yellow cells.

Please check our website to be sure you **use the latest version of the workbook for all the features and accurate information. Also, please complete the workbook in the order of the worksheets.**

Questions? Contact the Air Permits Division at (512) 239-1250

For rule language of §§106.261 and 106.262, please visit the Texas Secretary of State (SOS) website:
https://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC?tac_view=5&ti=30&pt=1&ch=106&sch=K&rl=Y

How to Submit:
After this workbook has been completed, it should be combined with the non-confidential information of the application and submitted as an attachment through the STEERS ePermits system:

https://www3.tceq.texas.gov/steers/

Any confidential information should be submitted as an attachment separate from the non-confidential attachment in the STEERS ePermits system. THSC §382.041 requires us not to disclose any information related to manufacturing processes that is marked Confidential. Mark any information related to secret or proprietary processes or methods of manufacture Confidential if you do not want this information in the public file. All confidential information should be separated from the application and submitted as a separate file. Additional information regarding confidential information can be found at:

https://www.tceq.texas.gov/permitting/air/confidential.html

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Click here to go to the General Information sheet.

General Information

This sheet provides general rule information for both General Facility PBRs.

Instructions: Please fill out all yellow cells unless marked optional. Attach the federal applicability review to the application for each project.
An optional supplemental information field has been provided at the end of this worksheet. This field should be used for demonstration of rule or policy compliance.

I. Project Information

Company	Clean Harbors Environmental Services
Site Description	Transpor Tank Container Washout
General Project Description	Construct and operate a larger two-bay tank container cleaning facility on the north side of the property separate and away from the existing facility.

I acknowledge that I am submitting an authorized TCEQ workbook and any necessary attachments. Except for inputting the requested data and adjusting row height, I have not changed the TCEQ application workbook in any way, including but not limited to changing formulas, formatting, content, or protections.	I agree
Please indicate which rule, or both, are applicable to this project:	Both
Does this project authorize a new facility, modify an New Source Review (NSR) Case-by-Case existing permitted facility, or both?	New Facility
Is this site only authorized under Permits by Rule?	Yes
Is this located at a federal NSR major source (PSD or NNSR)?	No
Is a federal NSR applicability determination for each project attached in the application?	Yes
Is there an associated NSR case-by-case permit?	
Please enter the associated NSR permit(s):	

II. General Rule Requirements for §106.261 and/or §106.262

Has a §106.4 checklist or compliance demonstration been included in the documentation [illegible]	Yes
Is this registration for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect?	No
Are emission increases being authorized under §106.261 five tons per year or greater?	
Is this registration for any change to any facility authorized under another section of this chapter or authorized under a standard permit?	No
Are facilities or changes located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located?	Yes
Are there any changes to or additions of any existing air pollution abatement equipment?	No
Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater than 5.0% opacity in any six-minute period?	No

In the row below, please include the following information for any pollution control equipment related to this registration: how the equipment operates, and the control efficiency achieved.	
C-SCRB - Wet caustic solution scrubber with dual packed columns designed for a minimum control efficiency of 99%. CAS- Carbon adsorption system composed of two parallel trains of two 2,000 lb carbon canisters per train with a control efficiency of > 99%.	
Are one or more of the following chemicals is handled for this registration? *For chemicals being authorized under §106.262 only*	No

acrolein, allyl chloride, ammonia (anhydrous), arsine, boron trifluoride, bromine, carbon disulfide, chlorine, chlorine dioxide, chlorine trifluoride, chloroacetaldehyde, chloropicrin, chloroprene, diazomethane, diborane, diglycidyl ether, dimethylhydrazine, ethyleneimine, ethyl mercaptan, fluorine, formaldehyde (anhydrous), hydrogen bromide, hydrogen chloride, hydrogen cyanide, hydrogen fluoride, hydrogen selenide, hydrogen sulfide, ketene, methylamine, methyl bromide, methyl hydrazine, methyl isocyanate, methyl mercaptan, nickel carbonyl, nitric acid, nitric oxide, nitrogen dioxide, oxygen difluoride, ozone, pentaborane, perchloromethyl mercaptan, perchloryl fluoride, phosgene, phosphine, phosphorus trichloride, selenium hexafluoride, stibine, liquified sulfur dioxide, sulfur pentafluoride, and tellurium hexafluoride.
These chemicals shall be handled at least 300 feet from the nearest property line and 600 feet from any off-plant receptor, and the cumulative amount of any of these chemicals resulting from one or more authorizations under this section (but not including permit authorizations) shall not exceed 500 pounds on the plant property and all listed chemicals shall be handled only in unheated containers operated in compliance with the United States Department of Transportation regulations (49 Code of Federal Regulations, Parts 171-178).

Distance to Property Line (feet):	
Distance to any off-plant receptor (feet):	
Cumulative amount of the above listed chemicals authorized under this section (pounds):	
Containers of these chemicals may not be vented or opened directly to the atmosphere at any	

III. Associated Emission Increases

Is this project related to physical or operational changes to facilities authorized under an NSR Case	No

Any upstream and/or downstream actual emission increases that result from a project for which this PBR is claimed need to be authorized appropriately. Any associated upstream and/or downstream emissions authorized as part of the PBR claim will need to be included as part of the total new or increased emissions, unless: 1) these emissions stay below current authorized emission limits; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT, health and environmental impacts, or other representations (i.e. construction plans, operating procedures, throughputs, maximum emission rates, etc.); and 3) this claim is certified via PI-7 CERT or APD-CERT. Notwithstanding the exclusion of any upstream and/or downstream emissions under this PBR claim, the total of all emission increases, including upstream and/or

Please explain how all actual emission increases are authorized appropriately:

IV. Hours of Operation

Does this project include only annual increases?	No

Project emission increases associated with a change to a facility that only result in an annual emissions increase can be authorized as part of the PBR claim if the following information is met: 1) the hourly emissions stay at or below current authorized emission limits; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT or health and environmental impacts; and 3) this claim is certified via PI-7-CERT. The annual emission increases associated with the PBR claim may not circumvent major new source review requirements under 30 TAC Chapter 116.

Please explain how the project meets the above:

Supplemental Information (Optional)

Project List

This sheet provides general rule information for both General Facility PBRs.

Instructions:
This project list will identify various projects in the registration. Please list out the project names, distance to the nearest receptor, and a short project description and explanation for why the project was done. The distance to the nearest off-plant receptor shall be at least 100 feet, and the maximum limit in this workbook is 10,000 feet. Utilize the worst-case distance for each project.

Project Numbe	Project Name	Distance to Nearest Receptor (ft.)	Description
1	Controlled Degassing	200	Controlled degassing of residual vapors from empty transport tankers
2	Uncontrolled Cleaning	200	Uncontrolled venting of residual vapors from empty tansport tankers
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Project Numbe	Project Name	Distance to Nearest Receptor (ft.)	Description
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Date: ___________
Project/Permit: ___________
Company: ___________

30 TAC §106.261(a)(2) Checklist

This sheet provides compliance demonstration and emission limits for 30 TAC §106.261.

Instructions: Please fill out all yellow cells unless marked optional.

Are there new or increased emissions listed under §106.261(a)(2), including fugitives, less than or equal to 6.0 pounds per hour (lb/hr) and ten tons per year?	Yes

Please select chemical and enter emission rates:
To search for contaminants, enter a keyword and then click on the drop-down for your results.

Project Name	Chemical	Emission Limit (lb/hr)	Emission Limit tpy	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Meets Limit?
Controlled Degassing	Ethanol	6.00	10.00	2.74E-02	6.17E-02	Yes
Controlled Degassing	Ethyl Acetate	6.00	10.00	7.01E-02	1.58E-01	Yes
Controlled Degassing	Ethylene	6.00	10.00	6.89E-03	1.55E-02	Yes
Controlled Degassing	Isopropyl Alcohol	6.00	10.00	2.63E-02	5.92E-02	Yes
Uncontrolled Cleaning	Refinery Petroleum Fractions (e	6.00	10.00	8.34E-02	1.88E-01	Yes
		6.00	10.00			
		6.00	10.00			
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Date: ___________
Project/Permit: ___________
Company: ___________

Project Name	Chemical	Emission Limit (lb/hr)	Emission Limit tpy	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Meets Limit?
		6.00	10.00			
		6.00	10.00			
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Project Name	Chemical	Emission Limit (lb/hr)	Emission Limit tpy	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Meets Limit?
		6.00	10.00			
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		6.00	10.00			

30 TAC §106.261(a)(3) Checklist

This sheet provides compliance demonstration and emission limits for 30 TAC §106.261.

Instructions: Please fill out all yellow cells unless marked optional. Also, please note that emissions must be fully speciated and cannot have general categories listed (e.g. "Organics", "Unspeciated VOCs", "TSP").

Are there new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m3) as listed and referenced in Table 262 of 30 TAC § 106.262 (relating to Facilities (Emission and Distance Limitations)?	No
Are there new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical not listed or referenced in Table 262?	Yes

Please enter the chemical name, L value, and emission rates:
If there is no L value available for the chemical, then leave the L value blank.

Project Name	Chemical	L value (mg/m3)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Is the L value greater than 200 mg/m^3?	Meets Limit?
Controlled Degassing	(E&Z)-1-Chloro-3,3,3-trifluoro-1-propene		3.20E-02	7.21E-02	N/A	Yes
Controlled Degassing	1,1,1,2,2,3-Hexachloropropane		7.17E-04	1.61E-03	N/A	Yes
Controlled Degassing	1,1,1,2,3-Pentachloroppropane		3.42E-03	7.70E-03	N/A	Yes
Controlled Degassing	1,1,1,2-Tetrachloroethane		1.87E-02	4.20E-02	N/A	Yes
Controlled Degassing	1,1,1,2-Tetrafluoroppropane		2.85E-02	6.41E-02	N/A	Yes
Controlled Degassing	1,1,1,3,3,3-Hexachloropropane		1.37E-03	3.07E-03	N/A	Yes
Controlled Degassing	1,1,1,3,3-Pentafluoropropane		3.29E-02	7.41E-02	N/A	Yes
Controlled Degassing	1,1,1,3-Tetrachloropropane		5.41E-03	1.22E-02	N/A	Yes
Controlled Degassing	1,1,1,3-Tetrafluoropropane		2.85E-02	6.41E-02	N/A	Yes
Controlled Degassing	1,1,1-Trichloropropane		3.22E-02	7.24E-02	N/A	Yes
Controlled Degassing	1,1,1-Trifluoropropane		2.41E-02	5.42E-02	N/A	Yes
Controlled Degassing	1,1,1-Trifluoroprpyne		2.31E-02	5.20E-02	N/A	Yes
Controlled Degassing	1,1,2,3-Tetrachloropropene		2.23E-03	5.01E-03	N/A	Yes
Controlled Degassing	1,1,3-Trichloropropene		1.53E-02	3.45E-02	N/A	Yes
Controlled Degassing	1,1-Dimethylcyclohexane		2.21E-02	4.97E-02	N/A	Yes
Controlled Degassing	1,2,2-Trichloro-3,3,3 Trifluoropropane		4.29E-01	9.65E-01	N/A	Yes
Controlled Degassing	1,3,5-Trimethylbenzene		3.08E-03	6.93E-03	N/A	Yes
Controlled Degassing	1,3-Dichlorobutane		8.20E-03	1.84E-02	N/A	Yes
Controlled Degassing	1-Bromo-2-chloroethane		4.16E-02	9.35E-02	N/A	Yes
Controlled	1-Chlorobutane		7.85E-02	1.77E-01	N/A	Yes
Controlled Degassing	2,2,3,3-Tetramethylbutane		2.99E-02	6.72E-02	N/A	Yes
Controlled Degassing	2,6-Toluene Diisocyanate		1.93E-04	4.34E-04	N/A	Yes

Project Name	Chemical	L value (mg/m3)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Is the L value greater than 200 mg/m^3?	Meets Limit?
Controlled Degassing	2+2(Chloroetthylchloroacetate)		6.27E-03	1.41E-02	N/A	Yes
Controlled Degassing	2-Aminoethyl(ethyl)amine		6.05E-03	1.36E-02	N/A	Yes
Controlled Degassing	2-Aminoethylmethylamine		1.33E-02	3.00E-02	N/A	Yes
Controlled Degassing	2-Methylundecanal		2.43E-03	5.47E-03	N/A	Yes
Controlled Degassing	3-Methyl-1-Butene (Isopentene)		1.72E-02	3.87E-02	N/A	Yes
Controlled Degassing	Ammonium Sulfide		2.11E-01	4.76E-01	N/A	Yes
Controlled Degassing	Bromotoluene		2.28E-03	5.14E-03	N/A	Yes
Controlled Degassing	Butyl Trimethylsilane		8.83E-03	1.99E-02	N/A	Yes
Controlled Degassing	Chloroacetyl Chloride		2.57E-02	5.79E-02	N/A	Yes
Controlled Degassing	Cis-1,3-Pentadiene (Cis-piperylene)		1.94E-01	4.36E-01	N/A	Yes
Controlled Degassing	Cyclopentene		1.94E-01	4.36E-01	N/A	Yes
Controlled Degassing	Ethylcyclohexane		1.43E-02	3.22E-02	N/A	Yes
Controlled Degassing	Gasoline		2.22E-01	5.00E-01	N/A	Yes
Controlled Degassing	Hexamethyl Disiloxane		5.62E-02	1.26E-01	N/A	Yes
Controlled Degassing	High Boiling Point Hetero-oligomeric C6 Dimer (		4.81E-03	1.08E-02	N/A	Yes
Controlled Degassing	Isobutyl Acrylate		8.48E-03	1.91E-02	N/A	Yes
Controlled Degassing	Isomers of Chloropropane (1-Chloropropane,		1.93E-02	4.34E-02	N/A	Yes
Controlled Degassing	Isopentane		1.77E-02	3.99E-02	N/A	Yes
Controlled Degassing	Light Aromatic Solvent		6.16E-03	1.39E-02	N/A	Yes
Controlled Degassing	Limonene		2.84E-03	6.38E-03	N/A	Yes
Controlled Degassing	Methyl 3-Methoxypropionate		5.79E-03	1.30E-02	N/A	Yes
Controlled Degassing	Methyl Propanoate		6.37E-02	1.43E-01	N/A	Yes
Controlled Degassing	Octene		1.79E-02	4.03E-02	N/A	Yes
Controlled Degassing	Pentachloroethane		1.23E-02	2.78E-02	N/A	Yes
Controlled Degassing	Piperazine		2.83E-03	6.37E-03	N/A	Yes
Controlled Degassing	Sec-Butyl Chloride		1.15E-01	2.59E-01	N/A	Yes
Controlled Degassing	Silane, Ethenyltrimethoxy-		9.87E-03	2.22E-02	N/A	Yes
Controlled Degassing	Silane, Ethyltrimethoxy-		1.91E-02	4.29E-02	N/A	Yes

Project Name	Chemical	L value (mg/m3)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Is the L value greater than 200 mg/m^3?	Meets Limit?
Controlled Degassing	Sodium Mercaptide		8.11E-03	1.82E-02	N/A	Yes
Controlled Degassing	Titanium Tetrachloride		1.67E-02	3.76E-02	N/A	Yes
Controlled Degassing	Trimethylaluminum		8.12E-03	1.83E-02	N/A	Yes
Controlled Degassing	Trimethylsilyl Isocyanate		4.52E-02	1.02E-01	N/A	Yes
Controlled Degassing	Ammonium Hydroxide		1.04E-01	2.33E-01	N/A	Yes
Controlled Degassing	Hydrochloric Acid		2.71E-03	6.10E-03	N/A	Yes
Controlled Degassing	Hydrofluoric Acid		1.37E-04	3.09E-04	N/A	Yes
Uncontrolled Cleaning	1,1,1,3,3-Pentachloropropane		7.92E-01	1.78E+00	N/A	Yes
Uncontrolled Cleaning	1,1,1,3,5,5-Hexachloropentane		8.81E-02	1.98E-01	N/A	Yes
Uncontrolled Cleaning	1,1,1,5-Tetrachloropentane		4.92E-01	1.11E+00	N/A	Yes
Uncontrolled Cleaning	1,1,3,3,5,5-Hexachloropentane		1.04E-01	2.35E-01	N/A	Yes
Uncontrolled Cleaning	1,2,3,4-Tetrahydronaphthalene	(Tetralin)	9.23E-01	2.08E+00	N/A	Yes
Uncontrolled Cleaning	1,2-Propylene Glycol		2.46E-01	5.55E-01	N/A	Yes
Uncontrolled Cleaning	1,3,3,5-Tetrachloropentane		6.21E-01	2.79E+00	N/A	Yes
Uncontrolled Cleaning	1-Octanol		2.90E-01	6.52E-01	N/A	Yes
Uncontrolled Cleaning	2-(2-Butoxyethoxy)ethanol (diethylene glycol monobutyl ether)		8.22E-02	1.85E-01	N/A	Yes
Uncontrolled Cleaning	2+4(Chloroethylchlorobutanoate)		8.23E-01	1.85E+00	N/A	Yes
Uncontrolled Cleaning	2-Ethylaminoethanol		9.44E-01	2.12E+00	N/A	Yes
Uncontrolled Cleaning	2-Methylaminoethanol		7.14E-01	3.21E+00	N/A	Yes
Uncontrolled Cleaning	2-Methyldecanal		2.24E-01	5.04E-01	N/A	Yes
Uncontrolled Cleaning	2-Methylnaphthalene		1.42E-01	3.21E-01	N/A	Yes
Uncontrolled Cleaning	4-Chlorobutyric acid		1.99E-01	4.49E-01	N/A	Yes
Uncontrolled Cleaning	Acetylene Polymers (as polyacetylene)		3.30E-01	7.42E-01	N/A	Yes
Uncontrolled Cleaning	Acrylamide		4.88E-02	1.10E-01	N/A	Yes
Uncontrolled Cleaning	Benzal Chloride		6.94E-01	1.56E+00	N/A	Yes
Uncontrolled Cleaning	Benzyl Bromide		6.13E-01	2.76E+00	N/A	Yes
Uncontrolled Cleaning	C5-C20 Petroleum Paraffins		8.72E-01	3.93E+00	N/A	Yes
Uncontrolled Cleaning	Chloretone (chlorobutanol)		2.19E-01	4.93E-01	N/A	Yes

Project Name	Chemical	L value (mg/m3)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Is the L value greater than 200 mg/m^3?	Meets Limit?
Uncontrolled Cleaning	Diesel Fuel		9.55E-01	2.15E+00	N/A	Yes
Uncontrolled Cleaning	Diethyl Maleate		3.12E-01	7.01E-01	N/A	Yes
Uncontrolled Cleaning	Ethylaluminum Dichloride		8.95E-01	2.01E+00	N/A	Yes
Uncontrolled Cleaning	Ethylene, Polymer with 2-Propenoic Acid		6.02E-01	1.35E+00	N/A	Yes
Uncontrolled Cleaning	Ethyltitanate		4.30E-01	9.67E-01	N/A	Yes
Uncontrolled Cleaning	Fuel Oil		5.45E-01	1.23E+00	N/A	Yes
Uncontrolled Cleaning	Gamma Butyrolactone		6.24E-01	2.81E+00	N/A	Yes
Uncontrolled Cleaning	Isobutyl Disulfonic Acid		3.62E-01	8.15E-01	N/A	Yes
Uncontrolled Cleaning	Mineral Oil		4.38E-02	9.86E-02	N/A	Yes
Uncontrolled Cleaning	Monochloroacetic Acid		3.02E-01	6.78E-01	N/A	Yes
Uncontrolled Cleaning	N-Methylpyrrolidone		1.23E-01	2.78E-01	N/A	Yes
Uncontrolled Cleaning	N-Nittrosodiphenylamine		2.56E-01	5.75E-01	N/A	Yes
Uncontrolled Cleaning	Poly-Alphaolefins (as 1-Decene, homopolymer)		2.50E-01	5.64E-01	N/A	Yes
Uncontrolled Cleaning	Polyethylene Glycol Methyl Ether		1.78E-01	4.00E-01	N/A	Yes
Uncontrolled Cleaning	Polysulfides (as sodium polysulfide)		1.91E-02	4.29E-02	N/A	Yes
Uncontrolled Cleaning	Sodium Perborate Tetrahydrate		9.76E-02	2.20E-01	N/A	Yes
Uncontrolled Cleaning	Titanium Chlorotriethoxide		7.30E-02	1.64E-01	N/A	Yes
Uncontrolled Cleaning	Titanium Dichlorodiethoxide		6.98E-02	1.57E-01	N/A	Yes
Uncontrolled Cleaning	Titanium Trichloroethoxide		6.55E-01	1.47E+00	N/A	Yes
Uncontrolled Cleaning	Triethylene Glycol Monobutyl Ether		2.66E-02	6.00E-02	N/A	Yes

Date: _____
Project/Permit: _____
Company: _____

30 TAC §106.262 Table 262 Checklist

This sheet provides compliance demonstration and emission limits for 30 TAC §106.262.

Instructions: Please fill out all yellow cells unless marked optional.

New or increased emissions, including fugitives, of chemicals shall not be emitted in a quantity greater than five tons per year nor in a quantity greater than E as determined using the equation E = L/K.

Are the chemicals being registered included in Figure 2 - Table 262 of 30 TAC §106.262(a)(2)? Yes

Chemicals listed in the 1997 Edition of the ACGIH TLV and BEI Guide are available in the next worksheet.

Please select chemical and enter emission rates:

To search for contaminants, enter a keyword and then click on the drop-down for your results.

Project Name	Chemical	L Value (mg/m3)	K value (from distance)	E, maximum Hourly Emission Limit (lb/hr)	Annual Emission Limit (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Limit?
Controlled Degassing	Acetone	590	200	2.95E+00	5.00E+00	1.04E-01	2.35E-01	Yes
Controlled Degassing	Benzene	3	200	1.50E-02	6.57E-02	1.48E-02	1.92E-02	Yes
Controlled Degassing	Butyl Alcohol, -	76	200	3.80E-01	1.66E+00	3.67E-02	8.26E-02	Yes
Controlled Degassing	Carbon Tetrachloride	12	200	6.00E-02	2.63E-01	5.52E-02	2.48E-01	Yes
Controlled Degassing	Chloroform	10	200	5.00E-02	2.19E-01	4.49E-02	2.02E-01	Yes
Controlled Degassing	Methylene Chloride	26	200	1.30E-01	5.69E-01	1.25E-01	5.61E-01	Yes
Controlled Degassing	Dicyclopentadiene	3.1	200	1.55E-02	6.79E-02	2.63E-03	5.91E-03	Yes
Controlled Degassing	Ethyl Acrylate	0.5	200	2.50E-03	1.10E-02	2.49E-03	3.24E-03	Yes
Controlled Degassing	Heptane	350	200	1.75E+00	5.00E+00	4.13E-03	9.29E-03	Yes
Controlled Degassing	Mineral Spirits	350	200	1.75E+00	5.00E+00	7.71E-03	1.74E-02	Yes
Controlled Degassing	Cumene	50	200	2.50E-01	1.10E+00	5.66E-03	1.27E-02	Yes
Controlled Degassing	Methyl-t-butyl ether	45	200	2.25E-01	9.86E-01	1.59E-01	3.59E-01	Yes
Controlled Degassing	Pentane	350	200	1.75E+00	5.00E+00	1.77E-02	3.99E-02	Yes
Controlled Degassing	Styrene	21	200	1.05E-01	4.60E-01	6.33E-03	1.42E-02	Yes
Controlled Degassing	Perchloroethylene	33.5	200	1.68E-01	7.34E-01	2.79E-02	6.28E-02	Yes
Controlled Degassing	Trichloroethylene	135	200	6.75E-01	2.96E+00	7.69E-02	1.73E-01	Yes
Controlled Degassing	Vinyl Acetate	15	200	7.50E-02	3.29E-01	4.09E-02	1.84E-01	Yes
Controlled Degassing	Vinyl Chloride	2	200	1.00E-02	4.38E-02	7.67E-03	3.45E-02	Yes
Controlled Degassing	Cresol	0.5	200	2.50E-03	1.10E-02	3.07E-04	6.91E-04	Yes
Uncontrolled Cleaning	Chromium VI Compounds	0.01	200	5.00E-05	2.19E-04	1.74E-06	3.91E-06	Yes
Uncontrolled Cleaning	Ethylene Glycol	26	200	1.30E-01	5.69E-01	7.64E-02	1.72E-01	Yes
Uncontrolled Cleaning	Kerosene	100	200	5.00E-01	2.19E+00	4.78E-01	2.15E+00	Yes
Uncontrolled Cleaning	Naphtha	350	200	1.75E+00	5.00E+00	1.57E+00	2.06E+00	Yes
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			

Date: ___________
Project/Permit: ___________
Company: ___________

Project Name	Chemical	L Value (mg/m3)	K value (from distance)	E, maximum Hourly Emission Limit (lb/hr)	Annual Emission Limit (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Limit?
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			

Date: ___________
Project/Permit: ___________
Company: ___________

Project Name	Chemical	L Value (mg/m3)	K value (from distance)	E, maximum Hourly Emission Limit (lb/hr)	Annual Emission Limit (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Limit?
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			

30 TAC §106.262 TLV Checklist

This sheet provides compliance demonstration and emission limits for 30 TAC §106.262.

Instructions: Please fill out all yellow cells unless marked optional.

New or increased emissions, including fugitives, of chemicals shall not be emitted in a quantity greater than five tons per year nor in a quantity greater than E as determined using the equation E = L/K.

and BEI Guide?	Yes

NOTE: The time weighted average (TWA) Threshold Limit Value (TLV) published by the American Conference of Governmental Industrial Hygienists (ACGIH), in its TLVs and BEIs guide **(1997 Edition)** shall be used for compounds not included in the table. The Short Term Exposure Level (STEL) or Ceiling Limit (annotated with a "C") published by the ACGIH shall be used for compounds that do not have a published TWA TLV. This section cannot be used if the compound is not listed in the table or does not have a published TWA TLV, STEL, or Ceiling Limit in the ACGIH TLVs and BEIs guide.

Please select applicable chemicals from dropdown, and enter emission rates:
To search for contaminants, enter a keyword and then click on the drop-down for your results.

Project Name	Chemical	L Value (mg/m3	K Value (from distance)	E, maximum Hourly Emission Limit (lb/hr)	Annual Emission Limit (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Limit?
Controlled Degassing	Methyl chloroform	0	200	0.00E+00	0.00E+00	1.29E-01	2.91E-01	
Controlled Degassing	1,1,2,2-Tetrachloroethane	6.9	200	3.45E-02	1.51E-01	2.83E-02	6.36E-02	Yes
Controlled Degassing	1,1,2-Trichloroethane	55	200	2.75E-01	1.20E+00	2.11E-02	4.74E-02	Yes
Controlled Degassing	1,1-Dichloroethane	405	200	2.03E+00	5.00E+00	1.72E-01	3.88E-01	Yes
Controlled Degassing	Ethylene dichloride	40	200	2.00E-01	8.76E-01	6.43E-02	1.45E-01	Yes
Controlled Degassing	1,2-Dichloroethylene	793	200	3.97E+00	5.00E+00	5.74E-01	1.29E+00	Yes
Controlled Degassing	Propylene dichloride	347	200	1.74E+00	5.00E+00	4.85E-02	1.09E-01	Yes
Controlled Degassing	1,3-Butadiene	4.4	200	2.20E-02	9.64E-02	1.38E-02	6.20E-02	Yes
Controlled Degassing	1,3-Dichloropropene	4.5	200	2.25E-02	9.86E-02	1.15E-02	5.19E-02	Yes
Controlled Degassing	o-Chlorotoluene	259	200	1.30E+00	5.00E+00	4.46E-03	1.00E-02	Yes
Controlled Degassing	Furfural	7.9	200	3.95E-02	1.73E-01	1.42E-03	3.19E-03	Yes
Controlled Degassing	Acrylic acid	5.9	200	2.95E-02	1.29E-01	2.97E-03	6.68E-03	Yes
Controlled Degassing	Acetic acid	25	200	1.25E-01	5.48E-01	5.41E-03	1.22E-02	Yes
Controlled Degassing	Acetophenone	49	200	2.45E-01	1.07E+00	5.38E-04	1.21E-03	Yes
Controlled Degassing	Acrylonitrile	0	200	0.00E+00	0.00E+00	1.30E-02	5.85E-02	
Controlled	Aniline	0	200	0.00E+00	0.00E+00	5.29E-03	1.19E-02	
Controlled Degassing	Benzyl chloride	5.2	200	2.60E-02	1.14E-01	1.76E-03	3.96E-03	Yes
Controlled Degassing	Butane	1900	200	6.00E+00	5.00E+00	1.43E-02	3.21E-02	Yes
Controlled Degassing	n-Butyl acetate	713	200	3.57E+00	5.00E+00	1.36E-02	3.05E-02	Yes
Controlled Degassing	Chlorobenzene	46	200	2.30E-01	1.01E+00	1.29E-02	2.90E-02	Yes
Controlled Degassing	Cyclohexanone	100	200	5.00E-01	2.19E+00	3.58E-03	8.04E-03	Yes
Controlled Degassing	Cyclopentadiene	203	200	1.02E+00	4.45E+00	2.09E-01	4.71E-01	Yes
Controlled Degassing	p-Dichlorobenzene	60	200	3.00E-01	1.31E+00	3.51E-03	7.90E-03	Yes
Controlled Degassing	o-Dichlorobenzene	150	200	7.50E-01	3.29E+00	2.26E-03	5.09E-03	Yes

Project Name	Chemical	L Value (mg/m3	K Value (from distance)	E, maximum Hourly Emission Limit (lb/hr)	Annual Emission Limit (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Limit?
Controlled Degassing	Diethylene triamine	4.2	200	2.10E-02	9.20E-02	2.30E-04	5.17E-04	Yes
Controlled Degassing	Ethyl chloride	264	200	1.32E+00	5.00E+00	1.58E-02	3.56E-02	Yes
Controlled Degassing	Ethyl ether	1210	200	6.00E+00	5.00E+00	1.82E-02	4.10E-02	Yes
Controlled Degassing	Ethyl benzene	434	200	2.17E+00	5.00E+00	9.83E-03	2.21E-02	Yes
Controlled Degassing	Ethylenediamine	25	200	1.25E-01	5.48E-01	7.01E-03	1.58E-02	Yes
Controlled Degassing	Hexane (n-Hexane)	176	200	8.80E-01	3.85E+00	1.01E-01	2.26E-01	Yes
Controlled Degassing	Isophorone	0	200	0.00E+00	0.00E+00	6.12E-04	1.38E-03	
Controlled Degassing	Methacrylic acid	70	200	3.50E-01	1.53E+00	1.10E-03	2.47E-03	Yes
Controlled Degassing	Methanol	262	200	1.31E+00	5.00E+00	3.52E-02	7.92E-02	Yes
Controlled Degassing	Methyl Acetate	606	200	3.03E+00	5.00E+00	1.28E-01	2.87E-01	Yes
Controlled Degassing	Methyl acrylate	0	200	0.00E+00	0.00E+00	2.46E-02	1.11E-01	
Controlled Degassing	Methyl chloride	103	200	5.15E-01	2.26E+00	3.50E-02	7.89E-02	Yes
Controlled Degassing	Methyl ethyl ketone (MEK)	590	200	2.95E+00	5.00E+00	5.24E-02	1.18E-01	Yes
Controlled Degassing	Methyl isobutyl ketone	205	200	1.03E+00	4.49E+00	1.60E-02	3.61E-02	Yes
Controlled Degassing	Ethanolamine	7.5	200	3.75E-02	1.64E-01	2.65E-04	5.97E-04	Yes
Controlled Degassing	Nitrobenzene	5	200	2.50E-02	1.10E-01	3.48E-04	7.83E-04	Yes
Controlled Degassing	Phenol	19	200	9.50E-02	4.16E-01	3.71E-04	8.36E-04	Yes
Controlled Degassing	Tetrahydrofuran	590	200	2.95E+00	5.00E+00	8.95E-02	2.01E-01	Yes
Controlled Degassing	Toluene	188	200	9.40E-01	4.12E+00	2.30E-02	5.17E-02	Yes
Controlled Degassing	Xylene (o-,m-, p-isomers)	434	200	2.17E+00	5.00E+00	1.55E-02	3.49E-02	Yes
Controlled Degassing	2-Butoxyethanol (EGBE)	121	200	6.05E-01	2.65E+00	1.58E-01	3.56E-01	Yes
Uncontrolled Cleaning	4-Methoxyphenol	5	200	2.50E-02	1.10E-01	1.66E-03	3.73E-03	Yes
Uncontrolled Cleaning	Methacrylic Acid	70	200	3.50E-01	1.53E+00	3.26E-01	7.33E-01	Yes
Uncontrolled Cleaning	Dibutyl phthalate	5	200	2.50E-02	1.10E-01	2.51E-04	5.65E-04	Yes
Uncontrolled Cleaning	Diphenylamine	10	200	5.00E-02	2.19E-01	7.91E-03	1.78E-02	Yes
Uncontrolled Cleaning	Isooctyl alcohol	266	200	1.33E+00	5.00E+00	3.28E-01	7.38E-01	Yes
Uncontrolled Cleaning	Naphthalene	52	200	2.60E-01	1.14E+00	1.96E-01	4.40E-01	Yes
Uncontrolled Cleaning	Phenothiazine	5	200	2.50E-02	1.10E-01	3.33E-05	7.49E-05	Yes
Uncontrolled Cleaning	Triethanolamine	0	200	0.00E+00	0.00E+00	6.90E-06	1.55E-05	
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			

Date: __________
Project/Permit: __________
Company: __________

Project Name	Chemical	L Value (mg/m3	K Value (from distance)	E, maximum Hourly Emission Limit (lb/hr)	Annual Emission Limit (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Limit?
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			
		0	1	0.00E+00	0.00E+00			

Emission Point Summary Table

The emission point summary table provided here is optional.

Instructions:
Please fill out the Emission Point Summary Table for the project emissions, including all emissions and rules being registered. Additional rows can be added if needed.

EPN / Source Name	Rule(s)	VOC		NO_x		CO		SO_2		PM		PM_{10}		$PM_{2.5}$		Other	
		lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
Controlled (V-STK-1 & V-STK-2)	§106.261																
Controlled (V-STK-1 &	§106.262																
Uncontrolled (WR-1)	§106.261																
Uncontrolled (WR-1)	§106.262																
Total Emissions (tpy)			0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00

Maximum Operating Schedule	**Hours/Day**		24	**Days/Week**		7	**Weeks/Year**		52	**Hours/Year**							
Notes																	