OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

NOC FORM 14
THERMAL DESORPTION

GENERAL INFORMATION

Site Owner: System Operator:	Site Contact Person: Contact Phone Number: Email:
System Operating Schedule: _____ hrs/day, _____ days/wk, _____wks/yr Check days when operating: M T W Th F Sat Sun	Clean-up Location:
Expected period of remediation activities: start date _____, end date	Current use of site:

SOIL CONTAMINATION LEVELS

Amount of contaminated soil (in tons):	Describe former use of contaminated site which caused the contamination:

Soil Contamination Levels: Please characterize soil contamination levels based on laboratory analysis of site specific soil samples. As an attachment, please provide a description of the soil sampling performed for this site and a copy of the laboratory results which specifies the analytic methods used.

Pollutant:	Contamination Level	Units
tot. petroleum hydrocarbons		
C_7 - C_{12} hydrocarbons		
C_{12} - C_{24} hydrocarbons		
>C_{24} hydrocarbons		
benzene		
total lead		
total metals		
chlorinated organics		

SYSTEM SPECIFICATION

Pollution Control Equipment:

[ ] cyclone (complete Form 13)
[ ] after burner
[ ] wet scrubber (complete Form 32)
[ ] baghouse (complete Form 12)
[ ] multiclone (complete Form 31)
[ ] catalytic oxidizer
[ ] carbon unit (complete Form 30)
[ ] other (attach description)

Dryer:	After Burner:	Stack Data:
type:	heat rate (MMBtu/hr)	stack height (ft)
max input rate (tph)	fuel type	stack diameter (in)
heat rate (MMBtu/hr)	fuel % sulfur	stack temp. (F^o)
fuel type	backup fuel	air flow rate (acfm)
fuel % sulfur	design temp (F^o)	
backup fuel	residence time (sec)	

Describe pollution control and emissions monitoring proposed:

OTHER INFORMATION

The following information is needed to complete the application:

1. Scaled technical drawings of the dryer and pollution control devices, including top, side and interior views, as appropriate to evaluate pollution control efficiency.
2. Daily and annual emission estimates for emissions of particulates, volatile organic compounds, and benzene.

Note: See back side of form for ORCAA approved equipment and operations.

REQUIREMENTS FOR NEW THERMAL DESORPTION ACTIVITIES
ORCAA 1/4/96

1. Compliance With WA Air Toxics Regulation: All new thermal desorption systems shall demonstrate compliance with the Washington Air Toxics Regulation (WAC 173-460) by completing the prescribed Tier 1 and TBACT analyses and including these in the NOC application.

2. Particulate Emissions: Particulate emissions including both the front and back half catches and measured consistent with ORCAA's current particulate source test procedures, shall not exceed 0.02 grains per dry standard cubic foot of air. ORCAA may require particulate emissions testing for purposes of verifying compliance with this limit.

3. Opacity Limit: Visual emissions from anywhere in the system shall not exceed ten (10) percent opacity for three consecutive minutes in any one hour as determined by EPA Reference Method 9 except during startup, shutdown, or malfunction in accordance with ORCAA's Regulations, Rule 8.7.

4. TPH Limit: The owner or operator shall not cause or allow the operation of the system if results from source testing or routine emissions monitoring indicate concentrations of total petroleum hydrocarbons (TPH) in excess of 5 ppmv. ORCAA may require that emissions be sampled and analyzed to determine the actual concentrations of total petroleum hydrocarbons (TPH) and benzene.

5. Routine Monitoring: The system shall be monitored as appropriate to determine compliance with applicable emission limitations.

6. After Burner Chamber Temperature: The owner or operator shall not cause or allow the operation of the system unless the temperature in the after burner chamber is maintained at or above 1600F as measured continuously. The owner or operator shall install and maintain a temperature monitoring system to monitor temperature downstream of the burn chamber (accuracy+/- 3%).

7. Hydrocarbon Emissions: The owner or operator shall not cause or allow the operation of the system if results from testing or monitoring indicate concentrations of total petroleum hydrocarbons in excess of 5 ppmv.

8. Dust Emissions: The owner or operator shall take reasonable precautions to prevent dust from becoming airborne.