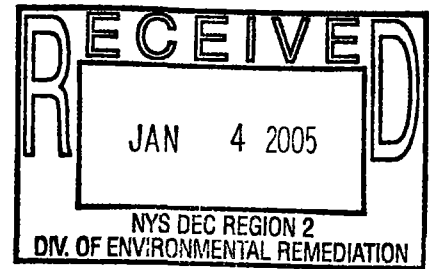


# THE WHITMAN COMPANIES, INC.

*Setting the Standard in  
Environmental Engineering & Management*

OM & M MANUAL



FOR

DEXTER CHEMICAL LLC  
845 EDGEWATER ROAD  
BRONX, NEW YORK

VOLUME III  
STANDARD OPERATING PROCEDURES

COMPILED BY

THE WHITMAN COMPANIES, INC.

DECEMBER 2005

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**OM & M MANUAL  
VOLUME III**

**DRAFT**

**DEXTER CHEMICAL LLC  
845 EDGEWATER ROAD  
BRONX, NEW YORK**

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**PART I**

**STANDARD OPERATING PROCEDURES**

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**1.0 STANDARD OPERATING PROCEDURES FOR SVE TREATMENT**

1. Upon arrival document time, temperature, and weather conditions in log book.
2. Check gate to ensure site is secure and that emergency contact information is visible.
3. Document in log book if system is running, if not trouble shoot and document why the system shut down.
4. Record SVE vacuum and influent/effluent temperatures (Catalytic Unit), or system influent vacuum and carbon vessel psi readings (Carbon Treatment).
5. Collect system effluent cfm reading (Kurz) and influent/effluent concentrations (PID).
6. Bail water traps.
7. Collect influent concentrations and individual riser concentrations (PID)
8. Make adjustments to manifold to maximize system mass removal rates.
9. Collect departure influent concentrations (PID), cfm (Kurz), vacuum readings, and psi (carbon) or temperature (catalytic) readings.
10. Complete system data sheet.

**2.0 STANDARD OPERATING PROCEDURES FOR AS UNIT**

1. Check AS hose integrity.
2. Collect psi readings from gauges at each manifold point.
3. Shut down compressor and remove condensate from collection jars.
4. Restart compressor and ensure all points are functioning (compressor is not dead heading at any point).
5. Complete system data sheet.

### **3.0 STANDARD OPERATING PROCEDURES FOR GROUND WATER TREATMENT SYSTEM**

1. Check system for leaks.
2. Ensure all floats and emergency shut offs are properly working.
3. Check discharge outfall for water clarity and any obstructions.
4. Collect psi readings from prior to carbon unit one, after carbon unit 1, and after carbon unit 2. If psi readings are greater than 10 between units backwash the vessels.
5. Document system flow rate and total flow, and make adjustments if necessary.
6. Complete system data sheet.

**PART II**  
**RECORDS AND FORMS**

## **1. CATALYTIC OXIDIZER TECHNICIAN SHEETS**

## Page 1 of 2

Date \_\_\_\_\_

	Arrival	Departure
Influent Temperature		
Effluent Temperature		
System Flow (cfm)		
System Vacuum		

[illegible]

# Catalytic Oxidizer

Page 2 of 2

Project Name \_\_\_\_\_  
 Project Number \_\_\_\_\_  
 Technician \_\_\_\_\_

## System Influent/ Effluent

Influent PID	
1	
2	
3	
4	
5	
Average	
Methane	
HC	

Effluent PID	
1	
2	
3	
4	
5	
Avg.	
Meth.	
HC	

## Percent Efficiency

Effluent	/ Influent	x 100

## Mass Removal

$$\text{lbs/hr} = \frac{\text{HC ppmv}}{1,000,000} \times \text{cfm, scf/min} \times \frac{100 \text{ lbs./mole}}{387 \text{ scf/mole}} \times 60 \text{ min/hr}$$

$$\text{lbs/hr} = \boxed{\phantom{000}} \times \boxed{\phantom{000}} \times 0.258 \times 60$$

## Air Sparge

Point	on/off	psi
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Compressor PSI \_\_\_\_\_  
 Compressor Temp. \_\_\_\_\_



## **2. CARBON SVE TECHNICIAN SHEETS**

## Page 1 of 2

Project Name \_\_\_\_\_  
Project Number \_\_\_\_\_  
Technician \_\_\_\_\_

Date \_\_\_\_\_

Influent PSI  
Vessel 1 PSI  
Vessel 2 PSI  
System Vacuum

Arrival      Departure


### System Manifold Readings

[illegible]

# CARBON SVE

Page 2 of 2

Project Name \_\_\_\_\_  
 Project Number \_\_\_\_\_  
 Technician \_\_\_\_\_

## System Influent/ Effluent

Influent PID	
1	
2	
3	
4	
5	
Average	
Methane	
HC	

Effluent PID	
1	
2	
3	
4	
5	
Avg.	
Meth.	
HC	

## Mass Removal

$$\text{lbs/hr} = \frac{\text{HC ppmv}}{1,000,000} \times \text{cfm, scf/min} \times \frac{100 \text{ lbs./ mole}}{387 \text{ scf/mole}} \times 60 \text{ min/hr}$$

$$\text{lbs/hr} = \boxed{\phantom{000}} \times \boxed{\phantom{000}} \times 0.2584 \times 60$$

## Air Sparge

Point	on/off	psi
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Compressor psi \_\_\_\_\_  
 Compressor Temp. \_\_\_\_\_

### **3. GROUND WATER RECOVERY TECHNICIAN SHEET**

## BRONX, NEW JERSEY

**Date:**

Time:

### Whitman Personnel:

## GROUND WATER RECOVERY SYSTEM

Dewatering Pump Flow Rate (gpm)		Dewatering Pump Adjusted Flow (gpm)	
Dewatering Pump Flow Cycle (hrs/day)		Comments:	
Pre-Carbon Bed Totalizer (gallons)			
Carbon Bed Flow Rate (gpm)			
Carbon Bed - 1 (psi)			
Carbon Bed - 2 (psi)			
TSS Filter (psi)			
Emergency Float Switch Drum - 1			
Emergency Float Switch Drum - 2			
Heat Tape Working (yes/no)			
TSS Filter (clean/change)			
System Operational			
Arrival			
Departure			