K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants 1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

October 8, 1993

.

Project # 2096

Ms. Margaret Graefe Wisconsin Department of Natural Resources 4041 N. Richards Street P.O. Box 12436 Milwaukee, WI 53212

Reference: Monthly Progress Report Sanitary Landfill and Transfer Delafield, Wisconsin

Dear Ms. Graefe:

The purpose of this letter is to provide a progress report for services provided from September 1 through 30, 1993. During this time period, we have addressed several issues, more specifically described as follows:

Project Management

Scope Item	% Activity Complete	Budget H	Expended			
1. Staff Coordination	100	\$	120.00			
2. Project Coordination	100	\$	120.00			
Report Preparation						
Scope Item	% Activity Complete	Budget	Expended			
1. Weekly Report	100	\$	425.00			
2. Report Review	100	\$	52.50			
Site Visit						
Scope Item	% Activity Complete	Budget	Expended			
1. Gas & Leachate Monitoring	100	\$	625.00			
2. Control Panel Checkup	100	\$	50.00			
Subcontractors' Invoices						
Scope Item	% Activity Complete	Budget I	Expended			
1. Cellular One	100	\$	52.94			

Ms. Margaret Graefe Page 2

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Equipment Usage

Scope Item	% Activity Complete	Budget Expended		
1. Gas Meter	100	\$ 312.50		
Miscellaneous				
Scope Item	% Activity Complete	Budget Expended		
1. Clerical	100	\$ 25.00		
2. Postage		\$ 23.74		
3. Mileage		\$ 63.00		
4. Fax		\$ 6.00		
5. Telephone		\$ 10.00		
6. Meal		\$ 3.15		

Amount Due

\$ 1,888.83

We believe that this documentation helps to clarify our activities at the landfill site. Please call us, if you have any questions regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC.

Prototo N. Singh, Ph.D., P.E. Project Manager

cc: Ms. Marie Stewart / WDNR, Madison

Encl: Invoice No. 2096-9-93 dated October 8, 1993 K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

October 7, 1993

Ms. Margaret Graefe Wisconsin Department of Natural Resources 4041 N. Richard St., Milwaukee, WI 53212

Job # 2096

Subject: Weekly Status Report for Leachate and Gas Systems Sanitary Transfer and Landfill, Delafield, WI

Dear Ms. Graefe:

Enclosed please find the weekly site inspection report for the leachate and gas system inspections for the referenced site. The site was inspected on October 7, 1993. Our comments are as follows:

- 1. Approximately, 49,500 gallons of leachate (about 9 loads) were hauled between October 1 and 6, 1993. The access road for the loading area requires grading before winter.
- 2. As mentioned in the previous reports, the Dial Log Plus communication system has been sent for its repair. The remote monitoring capabilities will be restored after the Dial Log Plus system is received. We are expecting its delivery in the first week of November 1993. The leachate control system is functional at this time.
- 3. The level of methane gas is more than its lower explosive limit (LEL) in gas venting wells, G-1 through G-3 and G-5 through G-8. The results are consistent with the previous round of monitoring. The methane gas detector is calibrated to measure methane only up to its LEL (5%). The concentration of methane greater than 5% does not represent actual methane concentration in a gas venting well. It indicates concentration more than its LEL.
- 4. About 9.8 % methane was recorded at the blower exhaust located at the southeast corner of Ormson Corporation. Methane gas at this location was monitored through a sampling port installed on May 20, 1993.

The concentration of methane in the vicinity of methane extraction well, located along west wall of the Ormson Corporation, was recorded at 0.9 %. A sampling port was also installed on the discharge line of this blower, to measure methane concentration. The electric motor and exhaust at this location are working well.

5. There are two blowers at blower # 1 location. Two gas wells are connected to one blower. Approximately, 9.8 % methane gas was measured at this location. Methane from one well is extracted from another blower at this location. Approximately 2.3 % methane was noted at this location.

Please call us, if you have any questions regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC. Raghe B. Singh Project Scientist

cc: Marie Stewart / WDNR, Madison

Project Engineer

Ravi Narayańan

Enclosure: 1.Site Inspection Report 2.Leachate Pumping Data from AWS, Milwaukee

<u>Weekly Site Inspection Report</u> Sanitary Transfer and Landfill, Delafield, Wisconsin

Date of Inspection: October 7, 1993 Name of Person: Raghu Singh

A. Leachate Monitoring

Leachate pumped from 10,000 gal tank:

10/01/93	5,500 gallons	1 load
10/02/93	5,500 gallons	1 load
10/04/93	10,000 gallons	2 loads
10/05/93	16,500 gallons	3 loads
10/06/93	11,000 gallons	2 loads

Comments:

The leachate collection system is active at the site. Approximately 49,500 gallons (9 loads) of leachate were hauled between October 1 and 6, 1993.

B. Gas Monitoring (West)

Methane	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8
(%)	9.4	7.8	9.6	2.5	7.4	6.8	9.4	9.8

Comments:

The level of methane is more than LEL in all gas venting wells except G-4. The results are consistent with the previous rounds of measurements.

There are two blowers at Blower # 1 location. Two gas wells are connected with the first blower. Approximately 9.8 % methane was measured at this location.

One gas well is attached with the second blower at Blower # 1 location. Approximately 2.3 % methane was noted at this location.

C. Gas Monitoring (East) near Ormson Corporation

Comments:

The concentration of methane at blower # 2 located at the southwest corner of Ormson Corporation was recorded 9.8 %. The result is consistent with the previous rounds of measurements.

Background (0.9 %) methane concentration was recorded at the methane extraction well located along the west wall of the Ormson Corporation. The electric motor and exhaust at this location are working well.

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K. SINGH & ASSOCIATES, INC. Engineers and Environmental Management Consultants 1135 Legion Drive, Elm Grove, WI 53122 (414) 821 - 1171 FAX (414) 821 - 1174

SPEED MEMORANDUM

DATE	:	10/06/93
то	:	Mike Malatesta
COMPANY	`:	Advanced Waste Services (AWS)
FAX #	:	(414) 355 - 7600
TEL.#	:	(414) 355 - 9027
FROM	:	Raghu Singh
SUBJECT	:	Hauling leachate from 10,000 & 2,000 gallons tanks between October 1 & 6, 1993 Sanitary Transfer & Landfill, Delafield, Wisconsin
Please provi	ide followi	ing information by 10/07/93

Please provide following information by 10/07/93

Date	Leschate Pumping Activities					
	10,000 Gallons pumped	gallon tank	2,000 Gallons pumped	gallon tank No. of Loads		
10/01/93	5500	(
10/02/93	5500	1,				
10/03/93	Ø	Ð				
10/04/93	1,000	2				
10/05/93	1/25000	3				
10/06/93	11000	2				
Total	49500	9				