

# K. SINGH & ASSOCIATES, INC.

*Engineers and Environmental Management Consultants*

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

March 21, 1994

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

Project # 2096

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 February 1, through 10, 1994. During this time period, we have addressed several issues, more specifically described as follows:

## Project Management

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Staff Coordination & Status Review	100	\$ 80.00

## Report Preparation

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Leachate & Gas Monitoring Report	100	\$ 150.00

## Site Visit

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Leachate & Gas Monitoring	100	\$ 125.00
2. Observation	100	\$ 160.00

## Subcontractors' Invoices

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Celluar One	100	\$ 52.94
2. Vydrzal Services, Inc.	100	\$ 1,815.00

Ms. Margaret Graefe  
Page 2

**Equipment Usage**

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Gas Meter	100	\$ 62.50


**Miscellaneous**

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Mileage	----	\$ 8.84
<b>Amount Due</b>		<b>\$ 2,454.28</b>

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.**

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

cc: Ms. Marie Stewart / WDNR, Madison

Enc:  
Invoice No. 2096-02-94 dated March 7, 1994

State of Wisconsin  
 DEPARTMENT OF NATURAL RESOURCES  
 Box 7921  
 Madison, Wisconsin 53707

**INVOICE FOR PROFESSIONAL SERVICES**

PROJECT Sanitary Transfer and Landfill O&M, REQUEST NO. 23  
Delafield Site PROJECT NO. SW472  
 LOCATION Delafield, Waukesha Co., Wisconsin CONTRACT NO. 3618

	Total Fee Due To Date	Previously Submitted	Payment Due This Invoice
<b>If "lump sum" contract:</b>			
Original Contract Sum _____			
Change Orders (List Separately) _____			
Total Contract To Date _____	<u>2,454.28</u>		<u>2,454.28</u>
<b>If "hourly basis" contract:</b>			
Maximum contract-amount <u>\$296,285.00</u> stipulated			
Change Orders (List Separately) _____			
(Attach itemized listing)			
<b>Other Charges to contract:</b>			
Additional Services: (Attach itemized listing) _____			
Reimbursable Expenses (Attach itemized listing) _____			
<b>TOTALS</b>	<u>2,454.28</u>		<u>2,454.28</u>

THIS IS TO CERTIFY THAT The Firm named herein is entitled to a payment of \$ 2,454.28

K. Singh & Associates  
 Firm Name

1135 Legion Dr., Elm Grove, Wisconsin 53122  
 Address

By [Signature] 5/4/94  
 Firm Representative Date

Margaret M. Shook 5/4/94  
 Project Manager Approval Date

\_\_\_\_\_  
 Program Coordinator Approval Date

**K. SINGH****&****ASSOCIATES,****INC.**

1135 Legion Drive,

Elm Grove,

Wisconsin 53122,

(414) - 821 - 1171

FAX (414) - 821 - 1174

Name                    WDNR - Southeastern District  
 Street                 Richards Street Annex-4041 North Richards Street   Date             March 07, 1994  
 City / State / ZIP   Milwaukee            WI                53212            Project #       2096  
 Attention Ms. Margaret Graefe                                    Invoice No.   2096-2-94

DESCRIPTION :   Engineering Services  
                   JOB :        Delafield Landfill  
 AUTHORIZATION :   Per your authorization of August 12, 1993  
 PERIOD COVERED :   February 1-10, 1994

Date	Details	Designation	Hour/ Qty./ Mins.	Cost/Hr. Cost/Meal Cost/Min.	Total
<b>Project Management</b>					
02/02/94	Staff coordination & status review	Principal Engineer (PS)	1	\$80.00	\$80.00
<u>Subtotal for Project Management</u>					<u>\$80.00</u>
<b>Report Preparation</b>					
02/04/94	Leachate & gas monitoring report	Project Scientist (RS)	3	\$50.00	\$150.00
<u>Subtotal for Report Preparation</u>					<u>\$150.00</u>
<b>Site Visit</b>					
02/03/94	Leachate & gas monitoring	Project Scientist (RS)	2.5	\$50.00	\$125.00
02/10/94	Observation	Principal Engineer (PS)	2	\$80.00	\$160.00
<u>Subtotal for Site Visit</u>					<u>\$285.00</u>
<b>Subcontractor's Invoices</b>					
01/22/94	Cellular One #00026203-040 Current charges		1.1	\$48.13	\$52.94
01/31/94	Vydrzal Services, Inc. #8095 Plow & salt access road for January		1.1	\$1650.00	\$1815.00
<u>Subtotal for Subcontractor's Invoices</u>					<u>\$1867.94</u>
<b>Equipment Usage</b>					
02/03/94	Gas meter		2.5	\$25.00	\$62.50
<u>Subtotal for Equipment Usage</u>					<u>\$62.50</u>
<b>Mileage</b>					
02/03/94		Project Scientist (RS)	34	\$0.26	\$8.84
<u>Subtotal for Mileage</u>					<u>\$8.84</u>

<b>PAYMENT DUE UPON RECEIPT</b>
---------------------------------

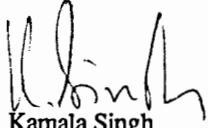
Invoice No. 2096-2-94

---

Date	Details	Designation	Hour/ Qty./ Mins.	Cost/Hr. Cost/Meal Cost/Min.	Total
------	---------	-------------	-------------------------	------------------------------------	-------

---

AMOUNT DUE \$2454.28

  
Kamala Singh  
President

---

PAYMENT DUE UPON RECEIPT
--------------------------

---

# K. SINGH & ASSOCIATES, INC.

*Engineers and Environmental Management Consultants*

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

March 21, 1994

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

Job # 4025

**Subject:** Monthly Status Report for  
Sanitary Transfer and Landfill  
Delafield, Wisconsin  
(Contract: SW 472 with effect from 02/11/94)

Dear Ms. Graefe:

Enclosed please find the monthly status report for the referenced site. Our comments are as follows:

1. Approximately, 116,500 gallons of leachate (about 21 loads) were hauled between February 1 & 28, 1994 (refer to Weekly Leachate & Condensate Hauling Report & AWS Data).
2. The Dial Log Plus communication and leachate control systems are functional.
3. The level of methane gas was more than its lower explosive limit (LEL) in gas venting wells, G-1 through G-3 and G-5 through G-8. The results were 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 that the concentration is more than its LEL.
4. The concentration of methane ranged from 8.9 to 9.6 % at blower # 1 located at the western part of the landfill. The results were consistent with the previous measurements.
5. The concentration of methane ranged from 9.2 to 9.5 % at blower # 2 located at the southeast corner of the Ormson Corporation. The results were consistent with the previous measurements. The electric motor and exhaust at this location were working well.

The electric motor and exhaust were noted non-functional during the site visit on March 17, 1994. Miller Electric of Delafield was contacted to check the motor. The blower was checked on March 18, 1994. Based on the blower inspection and telephone conversation with Miller Electric, the motor is burnt and needs to be replaced. We will submit a proposal for motor repair soon.

6. About 0.9 % methane was recorded at the blower exhaust located along west wall of the Ormson Corporation. The results were consistent with the previous measurements. The electric motor and exhaust at this location were working well.

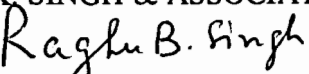
Ms. Margaret Graefe  
Page 2

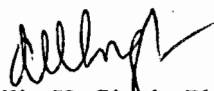
7. The access road for leachate pumping needs to be repaired. A work plan and cost estimates from three sub-contractors for the road repair was submitted to WDNR on February 28, 1994. Authorization is awaited.

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

Sincerely,

K. SINGH & ASSOCIATES, INC.

  
Raghu B. Singh, Ph.D.  
Project Scientist

  
Dilip K. Singh, Ph.D., P.E.  
Senior Project Engineer

- Enc: 1. Weekly Methane Monitoring Report  
2. Weekly General Monitoring Report  
3. Weekly Leachate and Hauling Report  
4. AWS Leachate Pumping Data

cc: Marie Stewart / WDNR, Madison





WEEKLY GENERAL MONITORING REPORT  
SANITARY TRANSFER & LANDFILL, DELAFIELD, WISCONSIN

Date	Name of Person	ACCESS ROAD LEADING TO LOADING AREA	LANDFILL COVER (DEPRESSIONS ETC.)	OTHER OBSERVATIONS
		Comments	Comments	Comments
2/11/94	Raghu	The hauler was able to pump the leachate	Covered with snow	-
2/18/94	Raghu	The hauler was not able to pump the leachate due to soft ground	Covered with snow	-
		Contacted DNR Project Manager and co-ordinator for road repair		
		Contacted Markshaw Excavating and Vydizal service to bid proposals regarding the road repair		
2/24/94	Raghu	The access road was very soft. The hauler was not able to pump the leachate.	Covered with snow	-
		The electric power of the leachate monitoring system was turned off to		
		prevent entry of the leachate from the leachate manhole to the		
		holding tanks.		
2/25/94	Raghu	The hauler was able to drive the tanker down the hill of the landfill, but	Covered with snow	
		it got stuck approximately 100 feet north of the loading area. It happened		
		due to a sudden decrease in the temperature. The snow started melting in the week of		
		2/21/94 and water accumulated on the road. The accumulated water converted		
		into ice on 2/25/94 due to low temperature. Ice provided free rotation for wheels.		

WEEKLY LEACHATE AND CONDENSATE HAULING REPORT  
SANITARY TRANSFER & LANDFILL, DELAFIELD, WISCONSIN

Date	Hauling Company	10,000 GALLON TANK		2,000 GALLON TANK		CONDENSATE TANK	
		Gallons Pumped	No. of Loads	Gallons Pumped	No. of Loads	Gallons Pumped	No. of Loads
02/01/94 to 02/28/94	Advanced Waste Services	116,500	21	N/A	N/A	N/A	N/A
		Please see the attached sheet.					
Weekly Total							
Weekly Total Gallons							
Weekly Total Loads							

03-10/94 16:17

001

# 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 : 03/10/94

TO : 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 February 1 & 28, 1994  
Sanitary Transfer & Landfill, Delafield, Wisconsin

Please provide following information by 03/11/94

Date	<u>Leachate Pumping Activities</u>			
	10,000 gallon tank		2,000 gallon tank	
	Gallons pumped	No. of Loads	Gallons pumped	No. of Loads
02/01/94	2	11500		
02/02/94	0			
02/03/94	1	5500		
02/04/94	1	6000		
02/05/94	0			
02/06/94	2	11000		
02/07/94	1	5500		
02/08/94	1	5500		
02/09/94	0			
02/10/94	0			
02/11/94	1	5500		
02/12/94	0			

Cont....2

Page 2

Date	<u>Leachate Pumping Activities</u>			
	10,000 gallon tank		2,000 gallon tank	
	Gallons pumped	No. of Loads	Gallons pumped	No. of Loads
02/13/94	0			
02/14/94	2		11000	
02/15/94	1		5500	
02/16/94	0			
02/17/94	0			
02/18/94	0			
02/19/94	0			
02/20/94	0			
02/21/94	0			
02/22/94	3		16500	
02/23/94	0			
02/24/94	0			
02/25/94	4		22000	
02/26/94	0			
02/27/94	0			
02/28/94	2		11000	
<b>Total</b>	<b>21</b>		<b>116500</b>	