

K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

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

April 12, 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 March 1994 for the referenced site. Our comments are as follows:

1. Approximately, 132,000 gallons of leachate (about 24 loads) were hauled between March 1 & 31, 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 9.8 % 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 8.9 to 9.2 % 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 were noted non-functional during the site visit on March 17, 1994. The motor is burnt and needs to be replaced. Technical specifications for the blower is being prepared. Bid proposals from three vendors will be sought and submitted to you as they become available.
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.
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.

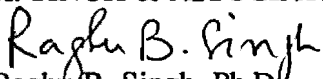
Ms. Margaret Graefe
Page 2


8. Eight on-site monitoring wells, lysimeter (LP-2), and leachate manhole were sampled on March 24, 1994. Samples were sent to Suburban Laboratories of Wisconsin, Inc., Waukesha. Test results are awaited.
9. Seven off-site wells were sampled on March 31, 1994. Samples were sent to Suburban Laboratories of Wisconsin, Inc., Waukesha. Test results are 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
5. List of On-site Wells
6. List of Off-site Wells

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
03/04/94	Raghu Singh	The ground was soft. AWS was not able to pump the leachate	Depressions at specific locations	-
03/11/94	Raghu Singh	The ground was hard. Leachate was pumped	"	-
03/17/94	Raghu Singh	The ground was hard	"	-
03/24/94	Raghu Singh	The ground was hard	"	-
03/31/94	Raghu Singh	The ground was hard. Leachate was pumped.	"	-

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

1 of 1

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
03/01/94 to 03/31/94	Advanced Waste Services	132,000*	24	N/A	N/A	N/A	N/A
		* Please see the attached sheet provided by RWS of Milwaukee.					
Weekly Total							
Weekly Total Gallons							
Weekly Total Loads							

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1 of 2

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 March 1 & 31, 1994
Sanitary Transfer & Landfill, Delafield, Wisconsin

Please provide following information by April 1, 1994

Date	<u>Leachate Pumping Activities</u>			
	10,000 gallon tank		2,000 gallon tank	
	Gallons pumped	No. of Loads	Gallons pumped	No. of Loads
03/01/94	1000	2		
03/02/94	5500	1		
03/03/94	Ø			
03/04/94	Ø			
03/05/94	Ø			
03/06/94	Ø			
03/07/94	Ø			
03/08/94	Ø			
03/09/94	Ø			
03/10/94	Ø			
03/11/94	16500	3		
03/12/94	Ø			

Cont.....2

Date	Leachate Pumping Activities			
	10,000 gallon tank		2,000 gallon tank	
	Gallons pumped	No. of Loads	Gallons pumped	No. of Loads
03/13/94	0			
03/14/94	5500	1		
03/15/94	5500	1		
03/16/94	5500	1		
03/17/94	0			
03/18/94	16500	3		
03/19/94	0			
03/20/94	0			
03/21/94	16500	3		
03/22/94	5500	1		
03/23/94	5500	1		
03/24/94	0			
03/25/94	5500	1		
03/26/94	5500	1		
03/27/94	0			
03/28/94	16500	3		
03/29/94	0			
03/30/94	5500	1		
03/31/94	5500	1		
Total	132000	24		

GROUNDWATER MONITORING FOR ON-SITE WELLS, LYSIMETER (LP-2), & LEACHATE MANHOLE
 SANITARY TRANSFER & LANDFILL, DELAFIELD, WISCONSIN

1 of 1

Samplers

Date Time	Well ID/ LP-2/ LMH	FIELD OBSERVATIONS													
		PVC Elevation feet,MSL	Depth to Water feet	GW Elevation feet,MSL	Sampling Device	Gallons Water Removed	Conductivity @ 25°C	Field Temper- ature	Odor	Turbidity	Color	pH	Deconta- mination Procedure	Well Condition	Other Comments
03/24/94 9:00 a.m.	E-2BR	1011.30	28.68	982.62	Bailer	6	1672	25°F	yes	No	No	7.8	SH.	Good	-
	E-3R	1028.77	55.80	972.97	Bailer	6	1562	25°F	yes	No	No	7.1	SH.	Good	-
	E-4	1036.02	54.78	981.24	Bailer	6	1287	25°F	yes	No	Grey	8.0	SH.	Good	-
	E-5	1026.38	45.00	981.38	Bailer	6	1562	25°F	yes	No	No	7.1	SH.	Good	-
	E-6	1065.34	53.64	1011.70	Bailer	6	550	25°F	No	No	No	8.0	SH.	Good	-
	E-6B	1064.45	80.30	984.15	Bailer	6	792	25°F	yes	yes	Yellow (silt)	7.8	SH.	Good	-
	E-7	1001.14	17.88	983.26	Bailer	6	957	25°F	No	No	No	7.4	SH.	Good	-
	E-8	1030.69	47.84	982.85	Bailer	6	814	25°F	No	No	No	7.7	SH.	Good	-
	LP-2	1022.57	68.20	954.37	Bailer	6	990	25°F	yes	No	No	8.0	SH.	Good	-
	Leachate	N/A	N/A	N/A	Bailer	—	1078	25°F	yes	yes	Brown	7.9	SH.	—	-

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April 8, 1994

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

Project # 4025

Reference: Monthly Progress Report for Sanitary Landfill and Transfer, Delafield, WI

Dear Ms. Graefe:

The purpose of this letter is to provide a progress report for services provided from March 1 through 31, 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. Subcontractor Coordination	100	\$ 200.00
2. Project / Staff Co-ordination	100	\$ 210.00
3. File & Bid document Review	100	\$ 325.00
4. Prepare Project Schedule	100	\$ 650.00
5. Field Work Preparation & Lab Co-ordination	100	\$ 100.00

Report Preparation

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Status Report	100	\$ 400.00
2. Progress Report	100	\$ 250.00

Site Visit

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Leachate & Gas Monitoring	100	\$ 325.00
2. GW Sampling and Leachate & Gas Monitoring	100	\$ 750.00

Ms. Margaret Graefe
Page 2

Subcontractors' Invoices

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Budget Electric, Inc.	100	\$ 48.95
2. Cellular One	100	\$ 63.36

Equipment Usage

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Gas Meter	100	\$ 187.50
2. Sampling Equipment & supplies	100	\$ 115.94

Miscellaneous

<u>Scope Item</u>	<u>% Activity Complete</u>	<u>Budget Expended</u>
1. Mileage	----	\$ 51.74
2. Clerical	----	\$ 12.50
3. Meal	----	\$ 8.22
4. Telephone	----	\$ 16.00

Amount Due \$ 3,714.21

Total Value of Bid Items Completed to Date \$ 7,290.93

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,

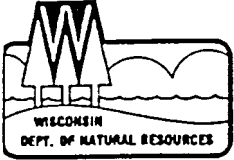
K. SINGH & ASSOCIATES, INC.

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

Enc:

1. Payment Application and Certificate
2. Invoice No. 4025-03-94 dated April 8, 1994

cc: Ms. Marie Stewart / WDNR, Madison



PAYMENT APPLICATION AND CERTIFICATE

Emergency and
Remedial Response
Section

APPLICATION NO. 02
PERIOD FROM 03/01 TO 03/31 1994
PAGE 1 OF 2

Project Sanitary Transfer and Landfill - Operation and maintenance
Contract No. SW 472
Contractor K. Singh & Associates, Inc.

- 1. Original Contract Sum \$ 397,103.00
- 2. Contract Directives Approved in Previous Applications:
Additions \$ _____ Deductions \$ _____ Not Applicable
- 3. Contract Directives Approved This Period (List Contract Modification No's. _____)
Additions \$ _____ Deductions \$ _____ Not Applicable
- 4. Net Change by Contract Directives (Sum of Lines 2 & 3) \$ N/A
- 5. Revised Contract Amount (Sum of Lines 1 & 4) \$ 397,103.00

- 6. Total Value of Bid Items Completed To Date
(Attached Payment Breakdown) \$ 7,290.93
- 7. Materials on Hand (Listing Attached) \$ _____
- 8. Subtotal (Sum of Lines 6 & 7) \$ 7,290.93
- 9. Percent Project Complete (Line 8 ÷ 5 x 100) 1.836 %
- 10. Line 8 From Previous Payment Application \$ 3,576.72
- 11. Current Month, Earned Amount (line 8 minus line 10) \$ 3,714.21
- 12. Amount Retained This Application (See Specification) \$ _____
- 13. Previous Amount of Retainage
(Line 15 of Previous Application) \$ _____
- 14. Approved Retainage Reduction This Application \$ _____
- 15. Total Amount Retained to Date
(Line 17 plus line 13 minus line 14) \$ _____
- 16. Current Payment Due (Line 11 minus line 12 plus line 14) \$ 3,714.21

CONTRACTOR

The undersigned Contractor certifies that the work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by him for work for which previous Certificates for Payments were issued and payments received from Department, and that the current payment shown herein is now due.

<u>K. Singh & Associates, Inc.</u>	<u>1135 Legion Dr., Elm Grove, WI 53122</u>	
CONTRACTOR	ADDRESS	
<u>Pratap N. Singh</u>	<u>V.P.</u>	<u>4/7/94</u>
NAME	TITLE	DATE

DEPARTMENT

OVERSIGHT MANAGEMENT

I hereby recommend payment to the Contractor for the above estimate of work executed during the pay period shown.

<u>Margaret M. Sharpe</u>	<u>5/5/94</u>
PROJECT MANAGER	DATE

APPROVED/DISAPPROVED _____	_____
Chief, Emergency and Remedial Response Section	DATE

APPROVED/DISAPPROVED _____	_____
ACTING FOR AGENCY	DATE

ACKNOWLEDGEMENT

I received payment in the amount noted on this payment application.

_____	_____	
CONTRACTOR	ADDRESS	
_____	_____	_____
NAME	TITLE	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 April 08, 1994
 City / State / ZIP Milwaukee WI 53212 Project # 4025
 Attention Ms. Margaret Graefe Invoice No. 4025-3-94

DESCRIPTION : Engineering Services
 JOB : Delafield Landfill
 AUTHORIZATION : Per your authorization of February 11, 1994
 PERIOD COVERED : March 1-31, 1994

Date	Details	Designation	Hour/ Qty./ Mins.	Cost/Hr. Cost/Meal Cost/Min.	Total
Project Management					
03/10/94	File & bid document review	Project Scientist (RS)	6.5	\$50.00	\$325.00
03/14/94	Subcontractor coordination	Principal Engineer (PS)	.5	\$80.00	\$40.00
03/15/94	Coordination with North Shore Excavating & project scheduling	Project Scientist (RS)	9	\$50.00	\$450.00
03/15/94	Subcontractor coordination	Principal Engineer (PS)	1	\$80.00	\$80.00
03/16/94	Project scheduling, regulatory coordination & coordination with off-site owner	Project Scientist (RS)	4	\$50.00	\$200.00
03/21/94	Staff coordination	Principal Engineer (PS)	1	\$80.00	\$80.00
03/23/94	Field work preparation & lab coordination	Project Scientist (RS)	2	\$50.00	\$100.00
03/27/94	Coordination for 3/31 sampling	Project Scientist (RS)	1	\$50.00	\$50.00
03/29/94	Staff coordination	Principal Engineer (PS)	.5	\$80.00	\$40.00
03/30/94	Project coordination	Principal Engineer (PS)	.5	\$80.00	\$40.00
<u>Subtotal for Project Management</u>					<u>\$1405.00</u>
Report Preparation					
03/21/94	Status report	Senior Project Engineer (DS)	3	\$50.00	\$150.00
03/21/94	Monthly progress report	Project Scientist (RS)	5	\$50.00	\$250.00
03/22/94	Monthly status report	Project Scientist (RS)	5	\$50.00	\$250.00
<u>Subtotal for Report Preparation</u>					<u>\$650.00</u>
Subcontractor Coordination					
03/02/94	Meeting with contractor	Principal Engineer (PS)	1	\$80.00	\$80.00
<u>Subtotal for Subcontractor Coordination</u>					<u>\$80.00</u>
Site Visit					
03/04/94	Leachate & gas monitoring	Project Scientist (RS)	2.5	\$50.00	\$125.00
03/11/94	Leachate & gas monitoring	Project Scientist (RS)	2.5	\$50.00	\$125.00
03/17/94	Leachate & gas monitoring	Project Scientist (RS)	1.5	\$50.00	\$75.00
03/24/94	GW sampling, gas & leachate monitoring	Project Scientist (RS)	9	\$50.00	\$450.00
03/31/94	GW sampling, leachate & gas monitoring	Project Scientist (RS)	6	\$50.00	\$300.00

PAYMENT DUE UPON RECEIPT

Date	Details	Designation	Hour/ Qty./ Mins.	Cost/Hr. Cost/Meal Cost/Min.	Total
				<u>Subtotal for Site Visit</u>	<u>\$1075.00</u>
Clerical					
03/16/94	Miscellaneous clerical	Receptionist (JL)	.5	\$25.00	\$12.50
				<u>Subtotal for Clerical</u>	<u>\$12.50</u>
Subcontractor's Invoices					
03/18/94	Budget Electric Inc. #1004 Troubleshoot Methane Pump		1.1	\$44.50	\$48.95
03/22/94	Cellular One #00026203-040 Current charges		1.1	\$57.60	\$63.36
				<u>Subtotal for Subcontractor's Invoices</u>	<u>\$112.31</u>
Equipment Usage					
03/11/94	Gas meter		2.5	\$25.00	\$62.50
03/17/94	Gas meter		1.5	\$25.00	\$37.50
03/24/94	Sampling equipment		4	\$25.00	\$100.00
03/24/94	Gas meter		2	\$25.00	\$50.00
03/31/94	Gas meter		1.5	\$25.00	\$37.50
				<u>Subtotal for Equipment Usage</u>	<u>\$287.50</u>
Meals					
03/24/94		Project Scientist (RS)	1	\$4.08	\$4.08
03/24/94		Staff Engineer (ED)	1	\$4.14	\$4.14
				<u>Subtotal for Meals</u>	<u>\$8.22</u>
Mileage					
03/04/94		Project Scientist (RS)	34	\$0.26	\$8.84
03/11/94		Project Scientist (RS)	35	\$0.26	\$9.10
03/17/94		Project Scientist (RS)	34	\$0.26	\$8.84
03/24/94		Project Scientist (RS)	35	\$0.26	\$9.10
03/31/94		Project Scientist (RS)	61	\$0.26	\$15.86
				<u>Subtotal for Mileage</u>	<u>\$51.74</u>
Telephone					
03/27/94		Project Scientist (RS)	16	\$1.00	\$16.00
				<u>Subtotal for Telephone</u>	<u>\$16.00</u>
Miscellaneous Expenses					
03/23/94	Distilled water & paper towels	Project Scientist (RS)	1	\$15.94	\$15.94
				<u>Subtotal for Miscellaneous Expenses</u>	<u>\$15.94</u>

AMOUNT DUE \$3714.21

Kamala Singh
Kamala Singh
President

PAYMENT DUE UPON RECEIPT
