HAUSER®

April 3, 2000

Mr. Raymond Ruiz
National Renewable Energy Laboratory
AFUF 100-10
16173 Denver West Parkway
Golden, CO 80401

SUBJECT: 1999 Annual Technical Status Report Subcontract JAC-4-14108-01

Dear Ray:

The 1999 Annual Technical Status Report information for subcontract JAC-4-14108-01 is contained in the following two tables. Table 1 contains the number of solid and liquid samples received from NREL each month from October 1998 to the end of the subcontract in August 1999. Table 2 contains the Subcontract Management Summary Report starting in October 1998 to the end of the subcontract in August 1999.

Table 1: Total Samples Received

Month	Solid Samples Received	Liquid Samples Received
October	8	0
November	19	0
December	24	0
January	13	0
February	3	0
March	26	0
April	4	0
May	19	0
June	19	0
July	9	0
August	2	0

All samples were analyzed using NREL's established methods. There were no problems with or changes to these procedures.

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Table 2: Subcontract Management Summary Report

Month	Actual Amount	Planned Contract Amount	Variance from Planned Contract Amount	Cummulative Variance
October	$ 6,938.00	$16,666.00	$ 9,728.00	$239,030.00
November	$10,859.00	$16,666.00	$ 5,807.00	$244,837.00
December	$15,965.00	$16,666.00	$ 701.00	$245,538.00
January	$ 9,505.00	$16,666.00	$ 7,161.00	$252,699.00
February	$ 3,075.00	$16,666.00	$13,591.00	$266,290.00
March	$23,176.00	$16,666.00	-$ 6,510.00	$259,780.00
April	$ 4,235.00	$16,666.00	$12,431.00	$272,211.00
May	$15,178.00	$16,666.00	$ 1,488.00	$273,699.00
June	$20,112.00	$16,666.00	-$ 3,446.00	$270,253.00
July	$14,287.00	$16,666.00	$ 2,379.00	$272,632.00
August	$ 3,906.00	$16,666.00	$12,760.00	$285,372.00

Sincerely,

Catherine Guiterrez

Catherine Guiterrez
Technician II

NREL

SUBCONTRACT MANAGEMENT SUMMARY REPORT

619AA

1. Subcontract Title: Compositional Analysis of Biomass Samples	2. Reporting Period: 10/98 Through 8/99	3. Subcontract No: JAC-4-14108-01
4. Subcontractor (Name and Address): 5555 Airport Blvd. Boulder, CO 80301		5. Subcontract Start Date: 3-18-94
		6. Subcontract Completion Date:

7. Months	10/98	11/98	12/98	1/99	2/99	3/99	4/99	5/99	6/99	7/99	8/99				

8. Cost Status

a.

Accrued Costs															
b. Planned	16666	16666	16666	16666	16666	16666	16666	16666	16666	16666	16666				
c. Actual	6938	10859	15965	9505	3075	23176	4235	15178	20112	14289	3906				
d. Variance	+9728	+5807	+701	+7161	+13591	−6510	+12431	+1489	−3446	+2379	+12760				
e. Cum. Variance	239030	244837	245538	252699	266290	259780	272211	273699	270253	272632	285392				

f. Cost Plan Date: 4-18-97

g. Total Estimated Costs For Subcontract

h. Total Subcontract Value: 597,116.00

i. Unfilled Orders Outstanding: N/A

j. Estimate For Subsequent Reporting Period

9. Manpower Status (Direct Labor)

a.

Manpower															
b. Planned															
c. Actual															
d. Variance															

e. Manpower Plan Date

f. Planned Manpower

g. Actual Manpower

h. Total Estimated Manpower For Subcontract

i. Total Subcontract Manpower

10. Major Milestone Status

a.		
b.		
c.		
d.		
e.		
f.		
g.		
h.		
i.		

11. Remarks

12. Signature of Subcontractor's Project Manager: Catherine L. Gutierrez	13. Date: 4-3-00