8/13/96

ENVIRONMENTAL Jalked to Linda

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p. 2 sampling nounds

August 7, 1996

ST10 819

STID #819

Ms. Susan Hugo Alameda County Environmental Health Services 1131 Harbor Bay Parkway #250 Alameda, California 94502-6577

RE: Second Quarter Groundwater Report at the former City of Paris Cleaners - 3516 Adeline Street, Oakland, Ca., 94608

Dear Susan.

I am enclosing the Monitoring Report dated July 8, 1996, from Dugan and Associates that I received today. If you could please give me a call or drop me a note when you've gone through the report I would appreciate it. I have tentatively set up the next monitoring event to be at the end of September. I want this project to stay on task and I look forward to hearing from you.

Thank you,

Linda Champion

9441 Laguna Lake Way Elk Grove, California 95758

Linda Champion

(916) 684-2993

Enclosures

DUGAN ASSOCIATES

ENVIRONMENTAL SERVICES 1023B Martin Ave, Santa Clara, CA. 95050 408/988-5946 FAX 988-5947

INVOICE # 218-I.1

Invoice Date: August 6, 1996

Ms. Linda Champion 9441 Laguna Lake Way Elk Grove, California 95758

Services Provided:

Billing for sampling monitoring wells MW-1, MW-2, and MW-3 (2nd Quarter 1996 sampling event), preparing a chain of custody record, submitting the groundwater samples to Monroe Laboratories Inc. for laboratory analysis, and preparation of a monitoring report.

Task 1: FIELD WORK		
Sampling Rig and Crew, Travel	(2 Qts x 3 Wells @ \$85/Well)	\$255.00
Task 2: LABORATORY ANALYSI	S (Standard turnaround)	
PHg, BTEX, and MTBE	(1 Qtrs x 3 Wells @ \$57/each)	\$171.00
TPHd	(1 Qtrs x 3 Wells @ \$57/each)	\$171.00
TPHss	(I Qtrs x 3 Wells @ \$57/each)	\$171.00
Task 3: REPORT PREPARATION	& PROJECT SUPERVISION	
Report writing, drafting and clerical		\$150.00
Registered Geologist	6 hrs @ \$85/hr	\$255.00
TOTAL		\$1,173.00
TOTAL AMOUNT RECIEVED		\$513.00
TOTAL AMOUNT DUE		\$660.00

Remit to:

Dugan Associates 1023B Martin Avenue Santa Clara, CA 95050

TERMS: DUE UPON RECEIPT - SUBJECT TO INTEREST CHARGE AT 1.5% PER MONTH AFTER 30 DAYS PLEASE PAY FROM THIS INVOICE

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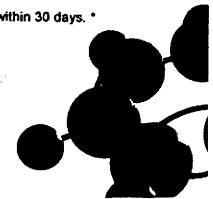
PH (408) 453-8090 • FAX (408) 453-8092 2128 N. First St. Suite E • San Jose, California 95131

INVOICE

Company:	Dugan Associates	Date Analyzed:	7/17/96	Batch #:	M1-268
Address:	1023 Martin Avenue	Project Name/#:	Champion		
	Santa Clara, CA 95050		3516 Adelin	e St.	
		Attn: Bill Duga	30	Project #:	218

Qty	Description	Turn-Around	Price	Total
3	MTBE, BTEX / GAS	Normal	50.00	150.00
3	DIESEL	Normal	50.00	150.00
3	STODDARD	Normal	50.00	150.00
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		<u> </u>	Total Due:	450.00

* A monthly service charge of 1.5% will be added if payment is not recieved within 30 days. *



DUGAN ASSOCIATES

ENVIRONMENTAL SERVICES

1023B Martin Ave., Santa Clara, CA. 95050 408/988-5946 FAX 988-5947

SECOND QUARTER 1996 GROUNDWATER MONITORING AND SAMPLING REPORT

Report Date:

August 6, 1996

Client:

Ms. Linda Champion 9441 Laguna Lake Way

Elk Grove, California 95758

Site Address:

3516 Adeline Street, Oakland, California.

Site Description:

Former cleaners at the southeastern corner of the intersection of Adeline Street with

35th Street.

Report Scope:

This report summarizes third party sampling performed by Dugan Associates at the project site. Supporting documentation provided by an independent State-certified laboratory are included in Attachment A.

Work Performed:

The following tasks were performed by Dugan Associates for the three monitoring wells (MW-1, MW-2, and MW-3) at the site:

- 1) measured depth to water level;
- 2) performed subjective analyses for floating product;
- 3) purged at least three well volumes of water from the well;
- 4) collected groundwater samples; and
- 5) transported the groundwater samples to a State- certified laboratory for the analyses requested;

Sampling Date:

Monitoring wells MW-1, MW-2, and MW-3 were sampled by personnel of Dugan Associates on July 8, 1996.

Laboratory:

Laboratory analyses were performed at Monroe Laboratories, Inc, in San Jose, California (DHS Certified Number 2034). Chain of custody record and laboratory data sheets are presented in Appendix A.

Analytical Methods:

Groundwater samples from wells MW-1, MW-2, and MW-3 were analyzed for the following:

- Total Petroleum Hydrocarbons as gasoline (TPHg) by GCFID (LUFT Method) following sample purge and trap by EPA Method 5030 [Gasoline Range C6-C12];
- 2) the volatile hydrocarbon constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX), and Methyl-tert-Butyl Ether (MtBE) by EPA Test Method 8020 / 602.
- Total Petroleum Hydrocarbons as diesel (TPHd) by GCFID (LUFT Method) following sample purge and trap by EPA Method 8015
 [Diesel Range C10-C23];
- 4) Total Petroleum Hydrocarbons as stoddard (TPHd) by GCFID (LUFT Method) following sample purge and trap by EPA Method 8015
 [Diesel Range C10-C23];

Field Methods:

Groundwater Monitoring. The static water level in each well is measured to the nearest 0.01-footusing an electric water-level sounder or oil/water interface probe (if the wells contain floating product) cleaned with Alconox® and water before use in each well. The liquid in the onsite wells is examined for visual evidence of hydrocarbons by gently lowering approximately half the length of a clean disposable bailer past the air/water interface. The sample is then retrieved and inspected for floating product, sheen, emulsion, color, and clarity. The thickness of floating product detected is recorded to the nearest 1/8-inch.

Groundwater Sampling. Wells which do not contain floating product are purged using a submersible pump or bailer. The pump, cables, and hoses are steam-cleaned or cleaned with Alconox® and water prior to use in each well. The wells are purged until withdrawal is of sufficient duration to result in stabilized pH, temperature, and electrical conductivity of the water, as measured using portable meters calibrated to a standard buffer and conductivity standard. If the well becomes dewatered, the water level is allowed to recover to at least 80 percent of the initial water level. A sample of the formation water is then collected from each of the wells using either a disposable bailer or cleaned stainless-steel bailer. The water samples are then gently poured into laboratory-supplied, 40-milliliter (ml) glass vials, 500 ml plastic bottles, or 1-liter glass bottles (as required per specific laboratory analysis), sealed with Teflon®lined caps, and inspected for air bubbles to check for headspace, which would allow volatilization to occur. The samples are then labeled and promptly placed in iced storage. A field log of well exacuation procedures and parameter monitoring is maintained. Water generated by the purging of wells is stored in 55-gallon drums onsite and remains the responsibility of the client. A Chain of Custody Record is initiated by the field geologist and updated throughout handling of the samples, and accompanies the samples to a laboratory certified by the State of California for the analyses requested. Samples are transported to the laboratory promptly to help ensure that recommended sample holding times are not exceeded. Samples are properly disposed of after their useful life has expired.

Field Data Sheets:

WELL NO.	MW-1		CALABI	C T 15 -	M/ M/M/ 1
			SAMPL		W-MW-1
DATE:	07/08/96			ETERS:	TPHss, TPHd, TPHg, BTEX, MTBE
WELL DIAMETER:	2-іл.		CONTA		1) 3 VOAs (40 mf) 2) 2 liter amber
DEPTH TO WATER:	11.62 ft.		PRESEF	VATIVE:	1) HCl
WELL DEPTH:	30 ft.				
PURGE METHOD:	Disposable Bailer		LABOR	ATORY:	MONROE ANALYTICAL (DHS LAB 2034)
SAMPLE METHOD:	Disposable Bailer		СОММІ		Product odor, spotty sheen,
SAMPLED BY:	Bill Dugan				
	CUMULATIVE GAL.				
TIME	PURGED	TURBIDITY*	pH	E.C.#	TEMP*
11:57	2 gallons	<1	6.35	1370	65.7
	•				
-:-	7 gallons	<1	6.41	1370	65.1
12:35	12 gallons	<1	6.40	1370	65.1
* =ml/liter	# = umhos/cm	^ =fabren	heit		
					
WELL NO.	MW-2		SAMPL	E I.D.:	W-MW-1
DATE:	07/08/96		PARAM	ETERS:	TPHss, TPHd, TPHg, BTEX, MTBE
WELL DIAMETER:	2-in.		CONTA		1) 3 VOAs (40 ml) 2) 2 liter amber
DEPTH TO WATER:	11.06 ft.			VATIVE:	I) HCI
WELL DEPTH:	29.5 ft.		I ILLYDIDIO	TALITE.	1) 1131
PURGE METHOD:	Disposable Bailer		TIDAD	i monu.	MONROE ANALYTICAL (DHS LAB 2034)
	•			ATORY:	
SAMPLE METHOD:	Disposable Bailer		COMM	ENTS:	Product odor, spotty sheen.
SAMPLED BY:	Bill Dugan				
	CUMULATIVE GAL.				
<u>TIME</u>	<u>PURGED</u>	TURBIDITY*	<u>pH</u>	E.C.#	TEMP^
10:27	2 gallons	<1	6.95	1230	62.5
-:-	7 gallons	<1	6.91	1380	62.9
11:36	12 gallons	<1	6.90	1400	62.9
* = ml/liter	# =umhos/cm	° = fahren		2.000	
	W (2.1.1.105, C.G.)	***			
WELL NO.	MW-3		CARADIT	ZID.	W-MW-1
	07/08/96		SAMPLI		TPHss, TPHd, TPHg, BTEX, MTBE
DATE:			PARAM		
WELL DIAMETER:	2-in.		CONTA		1) 3 VOAs (40 ml) 2) 2 liter amber
DEPTH TO WATER:	10.97 ft.		PRESER	VATIVE:	1) HCl
WELL DEPTH:	30 ft.				
PURGE METHOD:	Disposable Bailer		LABOR	ATORY:	MONROE ANALYTICAL (DHS LAB 2034)
SAMPLE METHOD:	Disposable Bailer		COMMI	ENTS:	Product odor, spotty sheen.
SAMPLED BY:	Bill Dugan				
	CUMULATIVE GAL.				
TIME	PURGED	TURBIDITY*	<u>pH</u>	E.C.#	TEMP*
13:00	2 gallons	<1	6.85	1380	63.0
-;-	7 gallons	<1	7.01	1390	62.7
14:05	12 gallons	<1	6.93	1390	62.7
14:03 * =m1/liter	# = umhos/cm			1370	U4. I
-ini/itter	# =umnos/cm	= fahren	nen		

Gradient:

Depth to water in wells MW-1, MW-2, and MW-3 were measured from a straight edge placed in a north-south orientation on the top of each christy box. The gradient was calculated to be approximately 0.06 ft/ft flowing approximately due north as illustrated in Figure 2.

Analytical Results:

Summarized in Table 1, and presented in Attachment A. See Figure 3.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
3516 Adeline Street
Oakland, California

Well Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater
MW-1			
11/18/92	17.44	13.99	3.45
11/04/93	17.44	16.79	0.65
03/08/94		14.14	3.30
08/02/94		13.18	4.26
02/08/95		10.92	6.52
07/08/9		11.62	5.82
MW-2			
$1\overline{1/18/9}2$	17.31	13.18	4.13
11/04/93		14.84	2.47
03/08/94		11.50	5.81
08/02/94		13.14	4.17
02/08/95		8.18	9.13
07/08/9%		11.06	6.25
<u>MW-3</u>			
11/18/92	17.44	13.93	3.51
11/04/93		15.16	2.28
03/08/94		13.43	4.01
08/02/94		12.82	4.62
02/08/95		7.62	9.82
07/08/9 ß		10.97	6.47

Well Elevation per BT Associates . BM taken as 20 ft located at cement at gate entrance

TABLE 2 RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES 3516 Adeline Street Oakland, California

Well Date	TPHss	TPHd	Benzene	Ethyl- Toluene	Total benzene	Xylenes	MtBE	ТРНд
MW-1								
11/18/92	1,800	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
11/04/93	2,000	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50
03/28/94	150	< 50	35	40	72	120.	NA	NA
08/02/94	2,100	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NΑ	< 50
02/08/95	620	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	<50
07/08/96	37,000	< 50	1.6	< 0.5	< 0.5	7 4.	7.9 /	110,000*
<u>MW-2</u>								
11/18/92	630	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
11/04/93	3,200	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50
03/28/94	45	< 50	1.4	2	11	19	NA	NA
08/02/94	170	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50
02/08/95	570	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	<50
07/08/96	1,800	< 50	< 0.5	2.6	15	24	6.3	2,800*
<u>MW-3</u>							(
11/18/92	11,000	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
11/04/93	320	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50
03/28/94	45	< 50	0.8	0.9	5	10	NA	NA
08/02/94	< 20	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50
02/08/95	<20	< 50	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 50
07/08/96	2,500	<50	1.0	<0.5	8.8	8	10	2,200*
MCLs DWALs		1.0	100	680	1,750			

Results in micrograms/liter ($\mu g/l$) = parts per billion (ppb).

ND: Less than the detection limit for the method of analysis (See laboratory data sheets).

MCLs: Maximum Contaminant Levels in Drinking Water, DHS (October 1990)

DWALs: Drinking Water Action Levels, DHS (October 1990) MtBE: Methyl-tert-Butyl-Ether

Components found in the gasoline range, however they are not characteristic of gasoline components.

Recommendation:

This report should be forwarded to the following regulatory agencies:

Alameda County Environmental Health Services

1131 Harbor Bay Parkway, #250 Alameda, CA 94502-6577

Attn: Susan Hugo

Limitations:

This report summarizes third party sampling performed by Dugan Associates at the project site. No soil engineering or geotechnical references are implied nor should be inferred.

Certification:

I certify that the work presented in this report was performed under my supervision. To the best of my knowledge, the data contained herein are true and accurate, and the work was performed in accordance with professional standards.

William R. Dugan

Field Services Manager, R.G.

Date

Mo. 6258 Exp. 11/97

Figure 1. Site Vicinity Map

Figure 2. Groundwater Gradient Map for July 8, 1996

Figure 3. TPHss, TPHd, and Benzene in Groundwater July 8, 1996

Attached: Laboratory Data Sheets and Chain of Custody Record





Source: U.S. Geological Survey

7.5-Minute Quadrangle Oakland West, California

2,000'

Scale: 1" = 2,000

DUGAN ASSOCIATES 1023B Martin Ave. Santa Clara, California

JOB NO. 218-1

Site Vicinity Map

Former City of Paris Cleaner 3516 Adeline Street Oakland, California **FIGURE**

1





Sidewalk

Approximate
Approximate

Oroundwater

Flow on 07/08/96

Sidewalk

Driveway 5.82 6.0 6.15 6.47 6.25 MW-3 MW-2

BUILDING

Legend

62.50 = Groundwater Elevation in feet

--- = Line of potential equal elevation of groundwater in feet

MW-3 = Existing Monitoring Well

Approximate Scale: 1 inch = 20 feet

Base Map Source: BT Associates (1995) for approximate locations of wells

DUGAN ASSOCIATES
1023B Martin Ave.
Santa Clara, California

JOB NO. 218-1

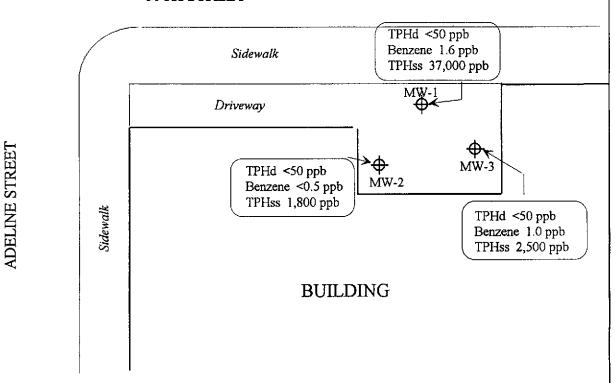
Groundwater Gradient Map (07/08/96)

Former City of Paris Cleaners
3516 Adeline Street
Oakland, California





35TH STREET



Legend

MW-3 = Existing Monitoring Well

Approximate Scale: 1 inch = 20 feet

DUGAN ASSOCIATES	TPHd,TPHss and Benzene in Groundwater (07/08/96)	FIGURE
1023B Martin Ave. Santa Clara, California	Former City of Paris Cleaners	3
JOB NO. 218-1	3516 Adeline Street Oakland, California	

PH (408) 453-8090 • FAX (408) 453-8092

2128 N. First St. Suite E • San Jose, California 95131

Company:	Dugan Associates	Project Name:	Champio	n	
Address:	1023 B. Martin Ave.		3516 Ade	line St.	
	Santa Clara, CA 95050	Date Sampled:	7/8/96	Project #:	218
		Date Received:	7/12/96	Sample Matrix:	Water
Attri:	Bill Dugan	Date Analyzed:	7/17/96	Reporting Units:	ug/L

Batch#: M1-268

Sample	DIOLITT M. H. J	
Sample	DHS LUFT Method	ļ
ID	TPH-Stoddard	
Reporting Limit	50	
W-MW-1	37000	
W-MW-2	1800	
W-MW-3	2500	
	· · · · · · · · · · · · · · · · · · ·	

Quality Control Results

	LCS Recovery	94%	
ļ	LCSD Recovery	95%	
	RPD	1%	

ND - Not detected above the reporting limit .

Reviewed and Approved by_

Hamid Emamifar, Laboratory Director



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Batch#: M1-268

Company:	Dugan Associates	Project Name:	^{ame:} Champion					
Address:	1023 B. Martin Ave.		3516 Ade	line St.				
	Santa Clara, CA 95050	Date Sampled:	7/8/96	Project #:	218			
		Date Received:	7/12/96	Sample Matrix:	Water			
Attn:	Bill Dugan	Date Analyzed:	7/17/96	Reporting Units:	ug/L			

Sample	DHS LUFT Method	
ID	TPH-Diesel	
Reporting Limit	50	
VV-MW-1	ND	
W-MW-2	ND	
W-MW-3	ND	
	· · · · · · · · · · · · · · · · · · ·	

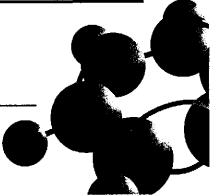
Quality Control Results

LCS Recovery	111%	
LCSD Recovery	113%	
RPD	2%	

ND - Not detected above the reporting limit.

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Hamid Emamifar, Laboratory Director





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Batch#: M1-268

Company: Dugan Associates		Champion								
1023 Martin Avenue		3516 Ade	line St.							
Santa Clara, CA 95050	Date Sampled:	7/8/96	Project #:	218						
	Date Received:	7/12/96	Sample Matrix:	Water						
Bill Dugan	Date Analyzed:	7/17/96	Reporting Units:	ug/L						
	1023 Martin Avenue Santa Clara, CA 95050	1023 Martin Avenue Santa Clara, CA 95050 Date Sampled: Date Received:	1023 Martin Avenue 3516 Adel Santa Clara, CA 95050 Date Sampled: 7/8/96 Date Received: 7/12/96	1023 Martin Avenue 3516 Adeline St. Santa Clara, CA 95050 Date Sampled: 7/8/96 Project #: Date Received: 7/12/96 Sample Matrix:						

Sample	DHS LUFT Method			EPA	602		
1D	TPH-Gasoline	MTBE	В	Τ	Ε	X	
Reporting Limit	50	5.0	0.50	0.50	0.50	0.50	
W-MW- 1	110,000*	7.9	1.6	ND	ND		
W-MW-2	2,800*	6.3	ND	2.6	15 2		
W-MW- 3	2,200*	10	1.0	ND	8.8	8.0	
	<u> </u>				.		
			,	<u></u>	·		

Quality Control Results

MS Recovery	85%	97%	91%	96%	85%	117%
MSD Recovery	85%	100%	86%	90%	74%	108%
RPD	0%	3%	6%	7%	14%	8%

ND Not detected above the reporting limit.

> Components were found in the gasoline component range for samples W-MW-1, W-MW-2, and W-MW-3. However, they are not characteristic of gasoline components.

Reviewed and Approved by

Hamid Emamifar, Laboratory Director

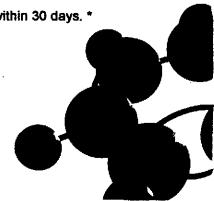
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INVOICE

Company:	Dugan Associates	Date Analyzed:	7/17/96	Satch #:	M1-268
Address:	1023 Martin Avenue	Project Name#;	Champion		
	Santa Clara, CA 95050		3516 Adelin	ne St.	
		Attn: Bill Duga	an	Project #:	

Qty	Description	Tum-Around	Price	Total
3	MTBE, BTEX / GAS	Normal	50.00	150.00
3	DIESEL	Normal	50.00	150.00
3	STODDARD	Normal	50.00	150.00
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 			+-+	
		•	Total Due:	450.00

^{*} A monthly service charge of 1.5% will be added if payment is not recieved within 30 days. *



JUL-12-96 82:41 PM

Monroe Laboratories, Inc. 2128 North First Street, Suite E, San Jose, CA 95131

Phone (408) 453-8090 Fax (408) 453-8092

Chain of Custody

C							 		,			, , .	.,	.,			Batch) #: <i> </i>	<u>\</u>	260	
Address: 1023 Martin	Santa Clara, CA 95050			Project Name: Champson Site Address: 3516 Adeline St OAKLand CA Project/PO#: 218		Avenue Site Address: 3516 Adeline 5+. CA 95050 OAK and CA				LUFT Method TPH-Diesel	H-Gasoline	O(602)BTEX	18.1 TRPH	13.1 TOG	0	0	0	Title 22 Metals (CAM 17) 5 Metals (Cd.Cr.Pb.Ni.Zn)	TIPH Stotard Silvert		
	Bill Dugan 946 Fax: (408) 988-5947		е Туре	"	>	Turn	Around		ethod T	ethod TT	thod 802	THOD 4	HOD	thod 801	thod 827	thod 824	Metals (Cd.Cr.	म्पाद	7	Dre Served	
SAMPLE ID	LOCATION DESCRIPTION	1	SAM Time	IPLED Date	# of Ctrs	N Soil	AATRI) Water		M TAU.	UFTM	PA Me	PA ME	PA ME	PA Me	PA Me	PA Me	Netals	TE	1416	S J. C. S.	
W-MW-1				7/9/92	5		1.7		Ż	\bar{X}	$\bar{\mathbf{x}}$	<u> </u>	7	1		 +	- "	\mathbf{t}	₹	17	
W- MW-Z				7/8/96	\$		V		λ	X			十	\top	П	十	+	仏	Ż-	17	
w-mw-3				7/8/96			V		X	X	λ							×ν			
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Sampler's name : 🕡	CLIMM R. DEGAN			Commen	ıts:	. V - B	BE A	(S)	<u> </u>	1	1		!		LA						
Sampler's signature	CLIMIN R. DIGAN					····															
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Relinguished by				Received	l by :												Da	itc			