

PROTECTION 97 AUG 12 PM 2: 59

August 7, 1997

Ms. Madulla Logan Hazardous Materials Specialist Alameda County Environmental Protection Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

8/12/97

Re: Completion of Remedial Action Plan for 6780 Sierra Court, Suite I, Dublin, CA

Dear Ms. Logan:

This letter is to advise you that American Xtal Technology has completed its remedial action plan for the leased space, referenced above, that we occupied through July 31, 1997.

The executed plan was in substantial conformance with the documents submitted to you initially on April 25 and, as revised, on July 15, 1997.

American Xtal Technology contracted with Synergy Environmental of Hayward, CA to: (1) remove and properly dispose of process-related equipment, piping, exhaust system ventilation (ductwork and fan units), non-recoverable equipment (such as benches, cabinets, shelving) inorganic arsenic-contaminated facility elements (essentially floor tile and/or process-stained drywall); (2) perform certain demolition activities, or remove certain "tenant improvements", as required by the property owner; and lastly, (3) clean the space.

Wastes contaminated with trace amounts of inorganic arsenic (Non-RCRA Hazardous Wastes), generated as a result of plan execution, were transported to and disposed of at Chemical Waste Management's Kettleman Hills Facility. Please refer to Uniform Hazardous Waste Manifests: 96851704 and 96270283 in Attachment A.

Other wastes (RCRA and Non-RCRA Hazardous Wastes) were managed with the contracted assistance of Laidlaw Environmental Services. An inventory of these wastes is provided by referring to Uniform Hazardous Waste Manifests: 96771288, 9660412, 9660413, and 96804761 in Attachment B.



Non-waste, or reusable, chemicals that were present on-site were re-packaged and shipped, again with the assistance of Laidlaw Environmental, to our Fremont facility. These materials were shipped under a standard Bill of Lading (see Attachment C).

Closure of our Conditional Authorized Waste Treatment Unit (i.e., Conditional Authorization: A1 for 6780 Sierra Court #1, Dublin CA 94568, EPA ID: CAD983595976 as authorized by the Department of Toxic Substances Control on 11/28/94) was carried out in the month of July and was completed on July 29, 1997. (The site's industrial wastewater discharge permit with the Dublin San Ramon Services District expired on June 30.) As part of the closure process to this treatment unit, the tanks were emptied, cleaned, and disposed of. as Non-RCRA Hazardous Waste. Unit mixers and filter press were decontaminated, packaged, and shipped, for possible future use, to our Fremont facility. Treatment waste residues (i.e. filter cake and/or cleanup debris) were manifested and disposed of as regulated hazardous wastes. And, wastewater discharge lines, install by AXT to serve the unit were removed from all former production areas. Mr. Erik Kuefner, Industrial Waste Inspector II, for the Dublin San Ramon Services District, conducted a final close-out walkthrough of the facility on July 25, 1997. Please see Attachment D for: (1) a copy of the Department of Toxic Substances Control's original "Acknowledgement of Units Operating under Conditional Authorization...", and, (2) a copy of the letter, and supporting documentation, dated July 29, to Mr. Kuefner on the final disposition of wastewater treatment drain lines following his earlier close-out inspection of July 25.

Finally, American Xtal Technology conducted a review and evaluation of the effectiveness of the cleaning of the space performed by Synergy Environmental. Wipe samples for inorganic arsenic were collected on two occasions to assess the effectiveness of the cleanup (HEPA vacuuming and final wet wiping of work area surfaces). Results of "OSHA" wipes, samples collected on Whatman 42 filters using deionized water as a wetting agent over 100 square centimeters, are presented in detail in Attachment E. Briefly, on 28 July seven (7) wipe samples were collected at random in the space. Laboratory analysis indicated inorganic arsenic levels in the range of from 7 to 57 micrograms per 100 centimeters (ug/100 cm²) of wiped surface area, with an average (mean) of 22 ug/100 cm². On 31 July, following final cleaning, eleven (11) additional wipes were collected. Results for 10 of these samples indicate trace inorganic arsenic levels in the range of from <3 to 18 ug/100 cm², with an average (mean) of approximately 7.2 ug/100 cm². Sample 11, "hall near lobby", registered 27 ug/100 cm². This number is treated separately here because it was taken in this area in advance of final cleaning. Based on a comparison of results for July 28 and July 31, we would anticipate that final cleaning in this area should have achieved a reduction similar to the ones previously observed (minimum 0.5 to maximum of 10) yielding a background level of from 3 to 13 ug/100 cm² in this area. Laboratory analysis was performed by Clayton Environmental. The instrumental detection limit for each wipe was 3 ug.

American Xtal Technology believes that we have achieved the feasible limit of control for trace amounts of inorganic arsenic following our remedial plan. As a point of reference, there are currently no occupational exposure standards established for inorganic arsenic surface contamination. Prudent practice, we acknowledge, requires achieving the lowest feasible limit. Stringent standards set for lead abatement in residential structures permit trace amounts of lead, a heavy metal with similar toxicity and regulatory status as inorganic arsenic, on the order of 11 ug/100 cm², or 100 ug/ft², on floors within a residence. We believe our average of 7 ug/100 cm², or 63 ug/ft², applies a similarly rigorous standard, particularly with respect to cleanup for a non-residential, or commercial, facility. In summary, through the execution of our remedial plan, we believe we have exercised due diligence and have met our obligations to both the property owner and to future commercial occupants of this space. We would request your review of this information and your acknowledgment of our closure activities.

Should you have questions, please do not hesitate to contact us.

Respectfully submitted,

American Xtal Technology

Edward J. Haggerty, CIH

Manager of EH&S

CC:

Mr. Sam Genirberg B/G Management 2520 College Avenue Berkeley, CA 94704 Tel. 510-848-3608 Fax 510-848-3618

Edward & Hasserty

Attachment A

Uniform Hazardous Waste Manifests Chemical Waste Management Kettleman Hills Facility

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	UNIFORM HAZARDOUS WASTE MANIFEST Grierator's Name and Mailing Address PARICAN XTAL TECHNOLOGY 6780 SIERRA CT STE 1 DUBLIN CA 94568-2680 4. Generator's Phone (415) 588-9656 5. Transporter 1 Company Name LUTREL 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMEN 35251 OLD SKYLINE ROAD KETTLEMAN CITY CA 93239 11. US DOT Description (including Proper Shipp a. NON RCRA HAZARDOUS DEBRIS CONTAMINATED WITH	C A D 9	6. US EPA ID Number 6. US EPA ID Number C P D 6 3 8 8. US EPA ID Number		9 0 7%	2. Page 1 of 1 Action Decision (Constants (B) (Constants (B	Information in the sho is not required by Fed	
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See Instructions on back of page 6. Form Approved OMB No. 2050-0039 (Expires 9-30-96) Department of Toxic Substances Please print or type. Form designed for use on elite (12-pitch) typewriter Sacramento, California 2. Page 1 1. Generator's US EPA ID No Manifest Document No. Information in the shaded areas UNIFORM HAZARDOUS is not required by Federal law. WASTE MANIFEST 3_n Generator's Name and Mailing Address CALL 1-800-852-7550 4. Generator's Phone (5. Transporter 1 Company Name 6. US EPA ID Number 7. Transporter 2 Company Name 96270283 THIN CALIFORNIA, CA 9. Designated Facility Name and Site Address 10. US EPA ID Number 12. Containers 13. Total WITHIN Wt/Vol No Type Quantity G CENTER 1-800-424-8802; E NE R A T ۲. 0 d. NATIONAL RESPONSE 15. Special Handling Instructions and Additional Information THE CALL 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and occurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway occording to applicable international and national government regulations. SPILL, If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. ő Day Printed/Typed Name Month Mayd EMERGENCY 17. Transporter 1 Acknowledgement of Receipt of Materials Day Printed/Typed Name Month Signature ۲., t : Q

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature

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20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

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Attachment B

Uniform Hazardous Waste Manifests Laidlaw Environmental

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State of California—Environmental Protection Agency Form Approved OMB No. 2050-0039 (Expires 9-30-99) See Instructions on back of page 6. Department of Toxic Substances Contr Please print or type. Form designed for use on elite (12-pitch) typewriter. Sacramento, California 1. Generator's US EPA ID No. 2. Poge l Information in the shaded areas Manifest Document No. UNIFORM HAZARDOUS is not required by Federal law. WASTE MANIFEST 014171611 of 1 UAD 983 5191519176 3. Generator's Name and Mailing Address 3. Generator's Name and Mailing Address
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4. Generator's Phone 1 510) 833-0553 WITHIN CALIFORNIA, CALL 1-800-852-7550 Atta: Ed Haagada 5. Transporter 1 Company Name 6. US EPA ID Number Laidlaw Environmental sevices 6. US EPA 10 Number 7. Transporter 2 Company Name ironsporiers (khôice) সভা ইন্ডাড়িক ছি 9. Designated Eacility Nome and Site Address 10 Sept 10 US EPA ID Number Solvent Service CLb of La ala Sentimental Service 1021 Berregion Road SanJuse, cm 95/33 CAD059149143110 12. Containers 13. Total 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Wt/Vol Quantity Туре Hazardons existe, 501d, NPS. (gallum Arsonide) nutriloxides), 9, NA 3077 PGITT RQ (DUOY) 7 MO11350 0109 Ε 6. Waste Phus phorous, amorphous, 4.1, un 1338 Ν 901 7 M 40121510 R c Waste toxic solid, inorganic, NOS, (Arric, meny) 1-800-О DH GOILIOIC 901 CENTER d. RESPONSE NATIONAL 15. Special Handling Instructions and Additional Information was pretent a glan when handly wester. Avoid In ha later, in the total, in the start of the contact. In emergency and In to hac. 1800-5355053. If under what ke ve turn warmenter, Emergency nesponse (1A) 用 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway occording to applicable international and national government regulations. Z S SPILL, If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment; storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is 8 available to me and that I can afford. Year Month Day EMERGENCY O 17. Transporter 1 Acknowledgement of Receipt of Material Day Year Month Printed/Typed Name 310 Gray Hermouth

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20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

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Attachment C

Laidlaw Environmental Chemical Shipment Bill of Lading

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Attachment D

DTSC Conditional Authorization 11/28/94

Letter to Mr. Kuefner Dublin San Ramon Services District If you have any questions regarding this letter, or have questions on operating requirements for your facility, please contact the nearest DTSC regional office, or this office at the letterhead address or phone number.

Singerely,

Michael S. Horner, Chief
Onsite Hazardous Waste Treatment Unit

Wilmels. CC

Permit Streamlining Branch

Hazardous Waste Management Program

Enclosure

cc: DENISE TSUII
DTSC REGION 2
SURVEILLANCE & ENFORCEMENT BR.

700 HEINZ AVE., BLDG.F, 2ND FL.

BERKELEY, CA 94710

RAFAT A. SHAHID ALAMEDA COUNTY DEPT. OF ENVIRONMENTAL HEALTH 1131 HARBOR BAY PKWY, RM 250 ALAMEDA, CA 94502

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EPA ID: CAD983595976

ENCLOSURE 1

Units authorized to operate at this location:

UNDER CONDITIONAL AUTHORIZATION:

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UNDER CONDITIONAL EXEMPTION:



July 29, 1997

Mr. Erik Kuefner Industrial Waste Inspector II Regional Wastewater Treatment Facility 7399 Johnson Drive Pleasanton, CA 94588

Re: Close-out Walkthrough and Removal of Drain Lines

Dear Erik:

Thank you again for your visit to 6780 Sierra Court, Suite I, on Friday, July 25, 1997.

I very much appreciate your flexibility with respect to completing this close-out walkthrough of our Dublin site in the month of July.

To update you, we have elected to hammer out and remove all wastewater discharge lines, and associated vents, from our former interior production area.

This action has effectively eliminated concern about the use of "these lines" for discharge into the main in the future.

For your reference, I am submitting photocopies of four original photographs that were taken to document this action. This work was carried out between July 28 and 29, 1997.

Should you have questions, please do not hesitate to contact me.

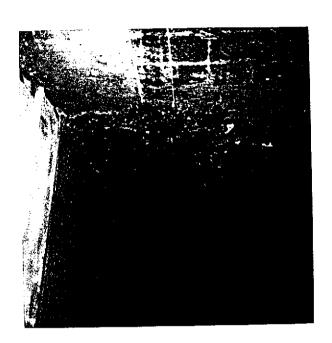
Sincerely,

Edward J. Haggerty, CIH

Manager, EH&S

Attachment: photos













1 Looking South



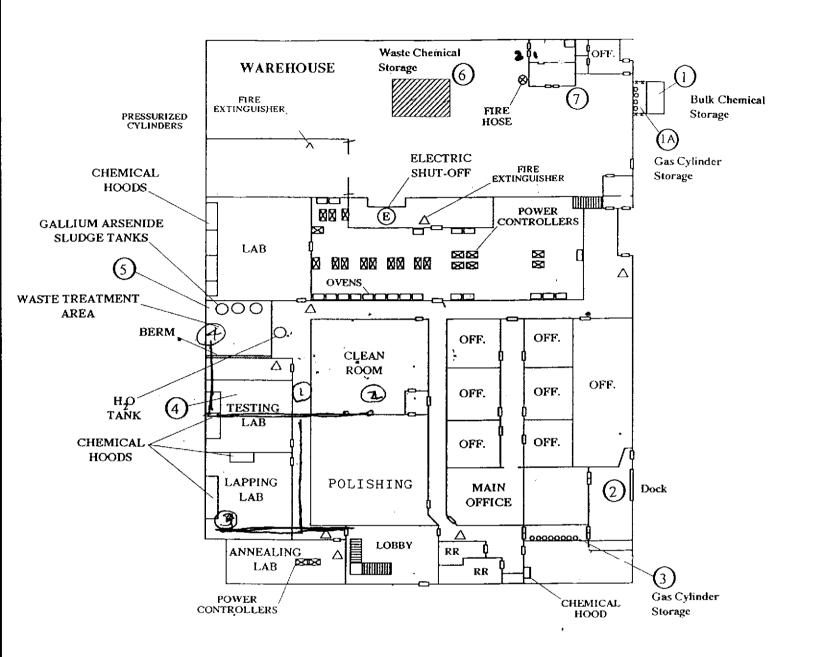
1 Looking west



3) Looking Eust



(4) Looking S. Jth



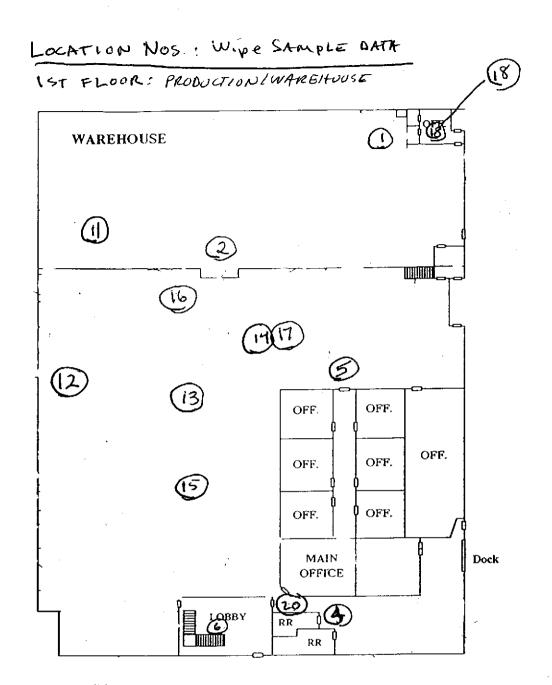




Date: November 17, 1994

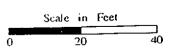
Summary Wipe Sample Data for 6780 Sierra Court, Suite I

ocation No.	Wipe Sample Location	March 28		July 28	-	July 31		
		ug/100cm2	ug/ft2	ug/100cm2	ug/ft2	ug/100cm2	ug/ft2	
1	Floor - Rear Warehouse	1000	9000	18	162	9	81	
2	Floor - Front Warehouse			57	513	5	45	
3	Floor - 2nd Floor Office			7	63			
4	Floor - 1st Floor Restroom			27	243			
5	Floor - 1st Floor Office			17	153	3	27	
6	Floor - 1st Floor Lobby (baseboard)			25	225	4	36	
7	Light Fixture - 2nd Floor Office, Front			9	81			
8								-
9						8	72	
10	Floor - 2nd Floor Lunch Room	7	63					
11	Floor - Front Warehouse - Slicing		,			18	162	
12		110	990 -			5	45	
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18						17	153	
19						<3	ND	
20						27	243	
	< : less than					 		
	ND : not detected (below detection limit)				•			
	March 28 data is derived from April 25th Plan.							
	Location No. Maps appended.		*	'				

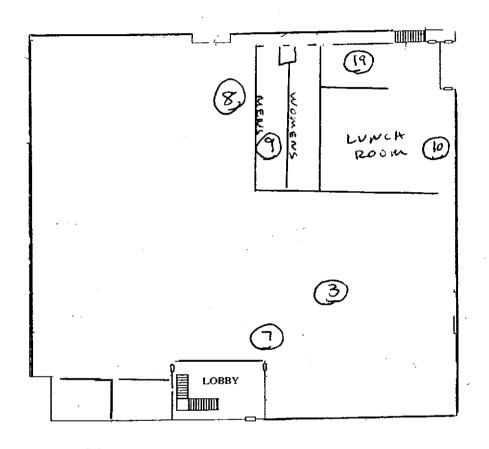


6780 SIERRA COURT DUBLIN, CALIFORNIA 94568



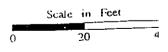


2nd Floor: OFFICE



6780 SIERRA COURT DUBLIN, CALIFORNIA 94568





51U 00338U1.# 3

Clayton

Page 2 of 2

Analytical Results for American Xtal Technology

Clayton Project No. 97073.07

Sample Identification: See Below

Date Received: 07/28/97

Lab Number:

9707307

Date Digested: 07/29/97

Sample Matrix/Media:

WIPE OSHA ID121M

Date Analyzed: 07/29/97

Digestion Method: Method Reference:

OSHA ID121M

Lab Number	Sample Identification	Date Sampled	Arsenic (mg/wipe)	Method Detection Limit (mg/wipe	
-01 -02 -03 -04 -05 -06 -07	#1 LOBBY BASEBOARD #2 2ND FLR PLYWOOD #3 2ND FLR LIGHT FIXTURE #4 WAREHOUSE FLR OPP. RR #5 WAREHOUSE FLR ELEC. #6 1ST FLR OPP. MENS #7 1ST FLR OPP. OFF ENTRY METHOD BLANK	07/28/97 07/28/97 07/28/97 07/28/97 07/28/97 07/28/97	(mg/wipe) 0.025 0.007 0.009 0.018 0.057 0.027 0.017 <0.003	(mg/wipe) 0.003 0.003 0.003 0.003 0.003 0.003 0.003	

ND: Not detected at or above limit of detection --: Information not available or not applicable

Clayton
ENVIRONMENTAL

REQUEST FOR LABORATORY **ANALYTICAL SERVICES**

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late Results Requested:	For Clayton Use Only Clayton Lab Project No.
ush Changes Authorized? Yes No Phone or Fax Results	9707307
urchase Order No.	
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оптрапу	
ddress	Dept.
ty, State, Zip	
(Enter an X in the box below to in the box	

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Name ED HAGGERTY	Clent Jo	ob No.		
Company AMERICAN XTAC	787 17 Day		Purchase Order No.	
maxims Address 43/1 SULAR	CAS		Name	
City. State, ZD FREMONT C			Corrpany Address	
Telephone No. (2) (1) (-5.501)	1 CANA 7 C	7-5807	Address	Dept.
Special instructions and/or specific regulator (method first of detection atc.)	CV CONTRIBUTION	3-5907	City, State, Zip	
method fimilial delection atc.) / OOcast wipe) (TUV) ieden Einstlich	Samples are:		
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Explanation of Preservative:	M	Wastewater		
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Authorized by: Staffert				
[Client Sept galate MILIST Appropriy Reque	Date .	- /E0/77 S	ample Condition Upon Receipt: XI Acceptable	
Mease return completed form and samples to or Petroit Regional Lab 2345 Roothel Drive	e of the Claster To	,	- A Manage	Other (explain)
2345 Roothel Drive dOl Charten Com	4 to Crayton Ent	rironimental Consultants	i, Inc. labs fisted below:	
lovi, NI 48375 Keenster Chiley Give., N.		n Francisco Regional Lab 52 Quarry Lane	Souths Regional Lab	DISTRIBUTION: White = Clayton Laboratory Yellow = Clayton Accounting
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270) 496-7500	(MC	II) 294-1755	Seattle, WA 90134 (800) 568-7795	Yellow = Clayton Accounting
FAX (770) 423-4990		0 425-2657 X ISTN 446 0101	(206) 783-7364	Prik = Clent Conv

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San Francisco Regional Lab 1252 Quarry Lane Pleasanton, CA 94566 (900) 294-1755 (510) 426-2657 FAX (510) 426-0106

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7-29-87 ;

of 2 Page 2

Analytical Results for American Xtal Technology

Clayton Project No. 97080.03

Sample Identification: See Below

08/01/97

Lab Number:

9708003

Date Received: 08/04/97 Date Digested:

Sample Matrix/Media:

WIPE

08/04/97 Date Analyzed:

Digestion Method:

OSHA ID121M

Method Reference:

OSHA ID121M

Lab Number	Sample Identification	Date Sampled	Arsenic (mg/wipe)	Method Detection Limit (mg/wipe)
-01	#1 WAREHOUSE FLR - SLICE	07/31/97	0.018	0.003
-02	#2 WAREHOUSE FLR - OPP RR	07/31/97	0.009	0.003
-03	#3 FLR - TREAT	07/31/97	0.005	0.003
-04	#4 FLR - CLEAN RM	07/31/97	0.003	0.003
-05	#5 LOBBY	07/31/97	0.004	0.003
-06	#6 2ND FLR MENS	07/31/97	0.008	0.003
-07	#7 LUNCH RM - DISPENSER	07/31/97	<0.003	0.003
-08	#8 TTL #1	07/31/97	<0.003	0.003
-09	#9 1ST FLR OPP OFF ENTRY	07/31/97	0.003	0.003
-10	#10 HALL NEAR LOBBY	07/31/97	0.027	0.003
-11	#11 REAR OFFICE	07/31/97	0.017	0.003
-12	#12 WAREHOUSE FLR, ELEC	07/31/97	0.005	0.003
-12	#13 TTLC #2	07/31/97	<0.003	0.003
-14	METHOD BLANK		<0.003	0.003

ND: Not detected at or above limit of detection Information not available or not applicable

Clayton
ENVIRONMENTAL CONSULTANTS

REQUEST FOR LABORATORY ANALYTICAL SERVICES

IMPORTANT
Date Results Requested:
Rush Charges Authorized? Yes No

Page _	of	
For Clayton		
Clayton Lab P	roject N	0.

9708003

Name TO HAGERTY Client Job No.						Purchase Order No.						
					141	Name						
Company AMERICAN ATAL TELH Dept. Mailing Address UZII SOLAR WAY City, State, Zip FREMONT, CA				유발스							Dept.	
Maining Address U 277 Sa CARC ST					SEND INVOICE TO	Address						
Telephone No. 693-5900 FAX No. 683-5901					= €	City, State, Zip						
Special instructions and/or specific regulatory requirements: (check if applicable)				ers	(Enter a	Preservative added.*)						
24 Hr Rush				king Water	Containers	,	[8]	//	/ /	//		////
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* Explanation of Preservative:			│	stewater		/ 577	7 /	/ /	/ /			/ / /
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#1 warehouse flr-slice	7/31	NA	wps	₩ ₩	1	8						FOLA
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#4 flr - dean rm							<u> </u>					TO4A
# 5 Lobby								<u> </u>		<u> </u>		05 A
# 6 2nd Fly news	\					$\perp \downarrow \perp$						TOO A
# 7 Lunch rm - dispenses						$\bot \!\!\! \bot$						107#
#8 +11 #1												1-08 #
# 9 IST FLE OPP. OFF entry			,									1-09 H
# 10 Hall near Lobby	<u> </u>	1	Y		V	V						L HO A
Collected by: 5 Hasse				(print) Collector's Signature: S Acclude								
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Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

Detroit Regional Lab 22345 Roethel Drive Novi, MI 48375 (800) 806-5887 (248) 344-1770 FAX (248) 344-2655 Attanta Regional Lab 400 Chastain Center Blvd., N.W., Suite 490 Kennesaw, GA 30144 (800) 252-9919 (770) 499-7500 FAX (770) 423-4990 San Francisco Regional Lab 1252 Quarry Lane Rleasanton, CA 94566 (800) 294-1755 (510) 426-2657 FAX (510) 426-0106 Seattle Regional Lab 4636 E. Marginal Way S., Suite 215 Seattle, WA 98134 (800) 568-7755 (206) 763-7364 FAX (208) 763-4189 DISTRIBUTION:

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