25 17 U8744

January 7, 1994

Mr. Dave Stiner Washington Beef

REF: Closure Site Assessment Report for two 1,000 Gallon Gas Underground Storage Tanks and clean up of petroleum contaminated soil at Washington Beef, Union Gap facility.

Dear Dave:

Enclosed please find three copies of a Closure Site Assessment Report as required by the Washington State Department of Ecology (WSDOE). Based on the data and findings reported herein, we found gasoline and diesel contamination in the soil surrounding the underground storage tanks with concentrations exceeding Method A Clean-Up Levels.

The WSDOE requires that you retain this report for a minimum of 10 years. We recommend that you retain it indefinitely. The WSDOE also requires us to submit a copy of the underground storage tank site check/site assessment check list. It is attached to this report. The WSDOE also requires us to submit a copy of the Notice to Permanent Closure of Underground Storage Tanks to the Olympia office of the WSDOE. This form is attached to this report.

We appreciate the opportunity to provide you with technical assistance for your tank closure. Please do not hesitate to call if you have any questions or need any additional information.

Sincerely,

CAYUSE ENVIRONMENTAL

Bryan Mull Vice President

BM/dl

Enclosure

EXECUTIVE SUMMARY

Cayuse Environmental (CE) provided closure site assessment for removal of two 1,000 gallon gasoline underground storage tanks at the Union Gap facility of Washington Beef, in November 1993. CE and Ken's Construction of Wapato, Washington, did the excavation and tank cleaning for the two 1,000 gallon gasoline tanks on November 16, 1993. Samples were taken after tanks were removed. The samples were sent to Spectra Labs for laboratory analyses. It was found that the site contained diesel and gasoline contamination which exceeded Method A clean levels as established in the Model Toxic Control Act Clean Up Regulation, Chapter 173-340-WAC.

The lab results confirmed gasoline and diesel contamination at the site, approximately 3,112 cubic yards of contaminated soil was excavated and sent to Andersons Rock and Demolition Pit for disposal. Approximately 1,008 cubic yards of over burden soils were removed to expose the petroleum soil. During excavation of contaminated soil, ground water was excavated at approximately 10'. Upon further investigation, it was found that the contamination extended two to three feet below the surface of the ground water. With the assistance of Brad Card of P.S.L.A, a plan was devised to use an oil water separator and a filter tank containing coalescing plates to de-water the excavation so contaminated soil could be removed. Ken Leingang provided the equipment and personnel to complete the de-watering process. By de-watering the excavation, Ken's Construction could excavate the soil and transport it to Anderson Pit. Without de-watering, the contaminated soil would have been too unstable to dig and transport.

The site has been a feedlot and meat processing plant for over sixty years. After excavation began, it became apparent that there was more than one source for the diesel contamination. Interviews with former employees verified the fact that in the years before, there was an above ground diesel tank which contributed to the contamination found during excavation.

During the last stages of the excavation, we encountered a large pocket of contamination on the east end of the site. We were told that, at one time the former owners used an above ground diesel fuel tank to fuel trucks. Again, this pocket connected with the rest of the excavation and was a source of contamination for this site. Because the area where contamination was found was one time a feedlot for cattle, the soil contained very high nitrogen which activation naturally occurring bio-remediation at the top of the water table.

After contamination was removed, soil samples were taken and sent to Spectra Labs of Tacoma, Washington, for analysis. Test results show excavation clean of petroleum contamination.

1.0 Introduction

1.1 Purpose

This report describes work associated with the removal of two 1,000 gallon gasoline tanks, removal of petroleum contaminated soil resulting from leaking pipes on the UST system, and areas which contained an old above ground tank that was removed years before. The facility has been in operation since the 1930's. The work and investigation responds to regulatory requirements set forth by the United States Environmental Protection Agency (EPA) and the Washington State Department of Ecology (WSDOE).

1.2 Scope of Work

This report completes closure site assessment services provided by Cayuse Environmental for removal of two underground storage tanks located at Washington Beef's Union Gap facility. The underground storage tank system consisted of two (2) 1,000 gallon steel tanks and associated piping and dispensers. Also the removal of petroleum contaminated soil which was found at the site.

2.0 Background Information

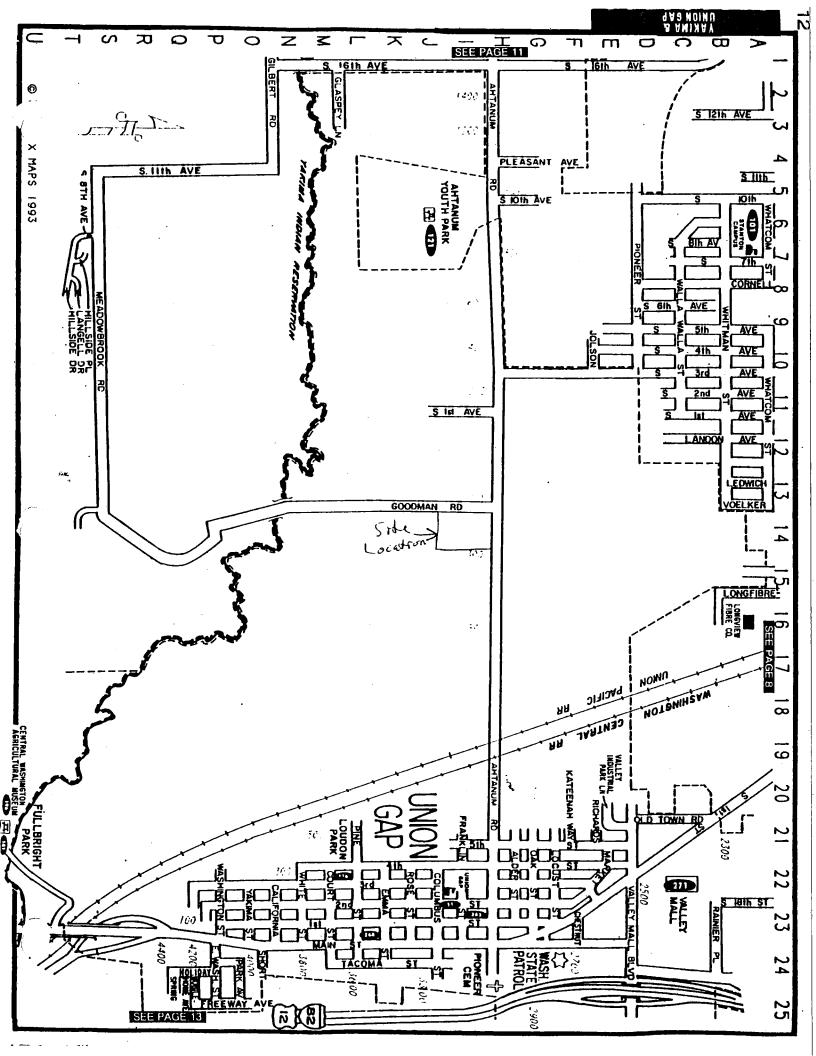
2.1 The site is located on Ahtanum Road in Union Gap, Washington (See map next page).

2.2 Site Description

The area where the tanks were located was just west of the truck maintenance shop. The tanks were used for filling company cars. Also in the same area, are two above-ground diesel storage tanks which provide diesel for company trucks. These tanks also provide fuel for facility emergency boiler. The UST site assessment identified that there was a release of petroleum contamination into the soil. After the excavation began, it was discovered that the contamination spread into and below the ground-water, to a depth of 12 to 14 feet. The size of the final excavation was approximately 130' x 150' x 12' deep.

2.3 Site History

Since the 1930's, the site has been a meat-processing plant. After interviews with former employees, it was discovered that on the Northwest corner of the truck shop, there was an above-ground diesel fuel storage tank. This tank was probably the source of most of the diesel contamination. While excavation was going on, an area of sand was found which contained a large amount of diesel



contamination. It is not known if a tank was located here in past times, but sand is commonly used to fill around tanks, however, we were unable to find anyone who could confirm this.

2.4 Soil Description

The soil throughout the excavation is clay, soil mix from surface to two feet above the ground water is believed to be imported fill. The area below the fill is river gravel with boulders up to ten inches in diameter, mixed with a sandy silt matrix.

3.0 Field Activities

3.1 General Investigative Methods

After the UST's were removed, the area was visually inspected, interviews with employees and analytical laboratory analyses were used for data. When contamination was confirmed, the soils and ground water within the contaminated area were excavated. A set of soil samples was taken, as well as samples of the disposal soil. Ground water was pumped through an oil-water separator and a filtering system. Then pumped to Washington Beef's settleing ponds. The methods and general conclusions of these activities are discussed below.

3.2 Tank Removal and Cleaning

Ken's Construction of Wapato, Washington, provided equipment needed for underground storage tank removal and Cayuse Environmental did the cleaning of the two tanks. All work was done within the WSDOE Underground Storage Tank Removal Regulations.

3.3 Tank Inspection

Upon removal of the UST's, attached soil and scale was removed to completely expose the tanks. Mild corrosion was noted in some areas, but no pitting or visible holes were found. During the removal process, it was discovered that one of the fittings leading from the tank to the fuel pump was leaking. This could have happened when the pumps were installed or from maintenance on the pumps the fitting above the pump motor was not tightened or sealed properly. This is what caused the leak of gasoline into the ground.

3.4 Closure Site Assessment

Bryan Mull, project manager, registered with the Washington State Department of Ecology Underground Storage Tank program performed the closure site

assessment on November 16, 1993. Representative soil samples were collected in the excavation after the tanks were removed as recommended by the <u>WSDOE</u> <u>Guidelines for Site Checks and Site Assessment For Underground Storage Tanks.</u>

3.5 Clean Up Action/Site Assessment

Approximately 3,112 cubic yards of petroleum contaminated. Soil was excavated by Ken's Construction of Wapato, Washington. Also, 1,008 cubic yards of overburden were removed and put in stockpile on the east side of the property. 61.15 cubic yards of asphalt and concrete was also removed. All asphalt, concrete, and contaminated soil was transported to Anderson Demolition Pit in Yakima, Washington. The excavation encompassed an area measuring 130' x 150' x 12' deep, located on the west side of the truck shop.

During excavation, ground water was encountered. After discussion with Washington Beef, Brad Card of P.S.L.A., and Cayuse Environmental, it was decided to hire Ken Leingang to bring his oil-water separator and oil filtering system to de-water the excavation so the contaminated soil below the ground water level could be excavated. After the de-watering process was done, the oil-water separator and filter system were cleaned and rinse water was disposed of by Gordy's Used Oil of Toppenish, Washington.

3.6 Soil Sampling

The sampling plan shows the location, depth and types of samples taken. In general, samples collection and controls followed the following procedures.

- 1. Select a laboratory certified, clean sample jar for sample collection.
- 2. Using clean latex gloves and clean sampling utensils (tri-sodium phosphate chlorine solution, tap water rinse and distilled water rinse cycle). The soil was tightly packed in the sample jars (8 oz.) to the top of the jar to prevent any air space.
- 3. The jar was labeled with soil ample number, the type of laboratory test required, the date, name of site and samples. The samples were then entered on the Chain of Custody Form.
- 4. The samples were cooled in wet ice to approximately 4 degrees centigrade.
- 5. The samples were packed for shipment to the laboratory in Blue Ice and in a cooler.

6. Samples were relinquished to a courier for transport to the laboratory.

3.7 Ground-Water Samples

Water samples were taken when water was first encountered. Also, water was analyzed for bio-remediation activities. After the site was cleaned, samples were collected again to determine what level of contamination remained in the ground water. Analyses were done by Spectra Labs of Tacoma, Washington. Results are found at the back of this report.

4.0 Investigative Results

4.1 Summary of Soil Analyses

After receiving laboratory reports from Spectra Laboratories, CE reviewed the analyses. The clean-up efforts taken by Washington Beef were very successful as you can see from the analyses.

5.0 Conclusions and Recommendations

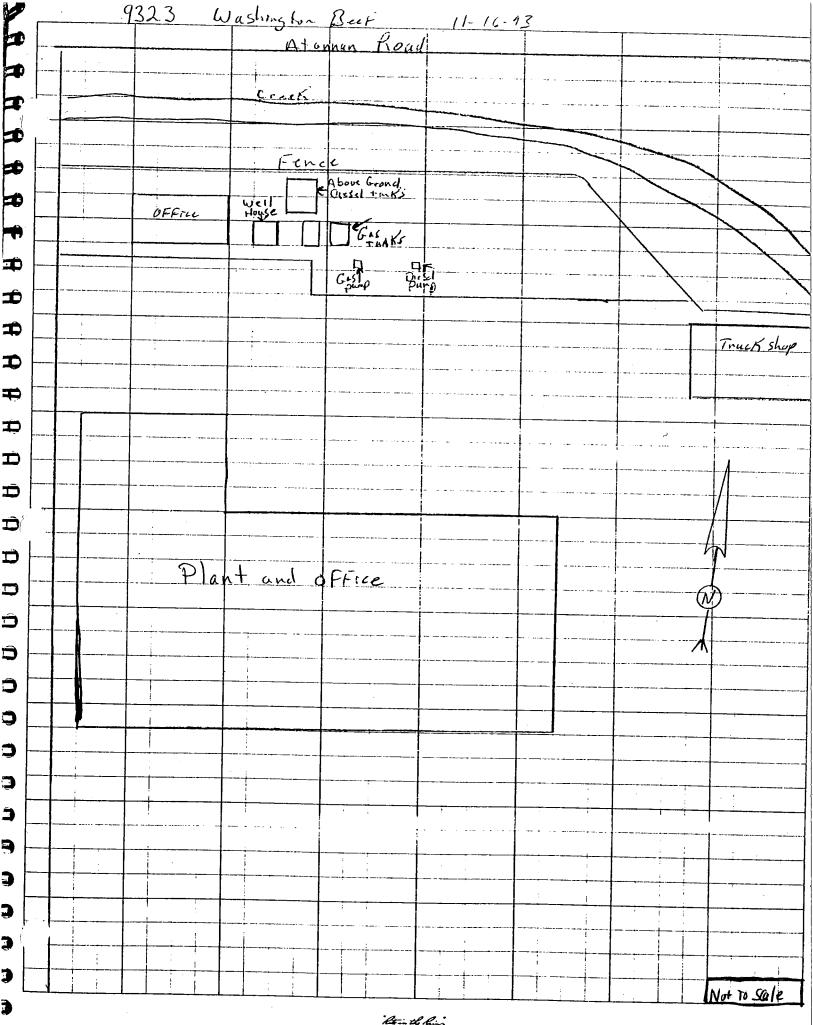
5.1 Conclusions and Recommendations

The large area contaminated by years of being used as a fueling station and fuel storage area was effectively cleaned up.

Approximately 3,112 cubic yards of petroleum contaminated soil was removed and disposed of at Anderson's Pit. After final analysis of soil and water were reviewed, this is our opinion -- Washington Beef has made every effort to clean up the site, no further action should be taken.

6.0 Limitation

In performing our professional services, Cayuse Environmental uses a degree of care ordinarily exercised under similar circumstances by members of our profession. No warranty, expressed or implied, is made or intended. Our conclusions and recommendations, developed from our field and laboratory investigation reported herein, are based upon this firm's understanding of the tank removal project and are in concurrence with generally accepted practice.



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UNDERGROUND STORAGE TANK 30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure activities. It must be signed and dated by either the owner/operator of the UST to be closed or his/her authorized representative. (This could be the firm contracted to do the work.) Ecology will notify the identified person of the earliest date closure/decommissioning activities may commence.

For questions on completing this form please call (206) 459-6293.

Please type or use ink.

The completed checklist should be mailed to:

Underground Storage Tank Section Department of Ecology Mail Stop PV-11 Olympia, WA 98504-8711

1. TANK OWNER AN	ID LOCATION	《蓝色》。	THE THE THE	
UST Owner/Operator:	Washing ton			
Owners Mailing Address			P.O. Box 93	
	()	w A.		P.O. Box. 98909
Telephone:	1509) 248-3750			ZIP-Code
Site ID Number (on Invoi	ce or available from Ecology if	tank is registered):	002577	
Site/Business Name:	· Washing ton	Beef Inc.		
Site Address:	2709 Good	dman Road		Ya Kima County
	Union Gap	dman Road		9 8 9 0 3 29-Code
2 TANK PERMANEI	NT CLOSURE TO BE PERI			
Firm:	Cayace Fuviro			A CHARLES OF THE SECOND
Address:	60 olden a			
	Toppenish	_		P.O. Box 98948
Telephone:	1509) 865-50	286	Contact Name: Z	cyan Mull
3. TANK INFORMAT	ION:			
Tank identification	Approx. Closure Date	Tank Capacity (gallons)	Tank Age (years)	Last Substance Stored
#1	11-93	1000 Gal		unlead Gas
#2	11-43	1 100 Gal		unlead Gas
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4. SIGNATURE OF	TANK OWNER/OPERATOR	OR AUTHORIZED I	REPRESENTATIVE	THE PARTY OF THE P
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Independent Remedial Action Report Summary

This report summary is an important part of the independent Remedial Action Report. Please complete the summary and submit it with your independent Remedial Action Report. If this document does not accompany your cleanup report, or if it is not fully completed, your report cannot enter the review process necessary for Ecology to provide you with a "no further action" determination, or to remove your site from the hazardous sites lists.

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Authorized Contact	man Road Union	Gap su	Me/Province W		18903	Country Y47/ms
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Name of Facility Operator				Phone	2121	*
Wushington	But				248-3	350
Address	0 1					
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Name of Consultant	1747					
Bryan	Mull			Phone	~ .0/	
Name of Firm	NUII			865-	086	
Cayuse 2	Environmental					
Address	-					
GO Street Older	1 Way To	Penish		SIMO WA.		2098948
Please indicate which of the	above persons completed this	eport. If the rep	port was com	pleted by som	eone other t	han listed
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Drinking Water																	
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CLEANUP INFORMATION

Indicate cleanup level methods used by completing Table 5-A below. (Check all that apply)

TABLE 5-A				
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9323-02	East wal	. 1	_5′	4es	Sorl	9,500
9323-03		1011	51	425	Sil	24,000
9323-04	Bottom	/	51	Yus	Soil	10,000
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9323-06	worthu	Na"	5'	Y-25	Soil	550
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Not To Scale

2221 Ross Way

Tacoma, WA 98421

(206) 272-4850

November 30, 1993

Cayuse Environmental

60 Olden Way

Toppenish WA 98948

Attn: Bryan Mull

Project: Wash. Beef Sample Matrix: Soil

Date Sampled: 11-15-93 Date Received: 11-16-93 Date Analyzed: 11-30-93

Spectra Project: S311-104

Spectra #	Sample ID:	WTPH-G, mg/Kg	Surrogate Recovery Trifluorotoluene
6425	9323-01	13,269	8831%*
6426	9323-02	624	94%
6427	9323-03	2,792	67%
6428	9323-04	11,131	6061%*
6429	9323-05	<20	108%
6430	9323-06	1,491	64%
Method Blank		<20	108%

^{*}Out of limits due to sample matrix effects.

SPECTRA LABORATORIES, INC.

2221 Ross Way

Tacoma, WA 98421

(206) 272-4850

November 30, 1993

Cayuse Environmental

60 Olden Way

Toppenish WA 98948

Attn: Bryan Mull

P.O. #9323

Project: Wash. Beef Sample Matrix: Soil

Date Sampled: 11-15-93 Date Received: 11-16-93 Spectra Project: S311-104

RUSH

Spectra #	<u>ID</u>	Total Petroleum Hydrocarbons, mg/Kg
6425	9323-01	14,000
6426	9323-02	9,500
6427	9323-03	24,000
6428	9323-04	10,000
6429	9323-05	210
6430	9323-06	550

Total Petroleum Hydrocarbons testing performed by WTPH-418.1 Modified

SPECTRA LABORATORIES, INC.



1106 Ledwich Ave., Yakima, WA 98902 (509) 248-4695 FAX (509) 452-1265

Chemistry, Microbiology, and Technical Services

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Certificate of Analysis

Work Cider # 13-12-040

TESTS PERFORMED AND RESULTS:

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sample # Locution		odor	matrix	Besults
9323-01 South wall Button	14	Na	5011	70 ppm
9323-02 Botton	141	MO	Water	740 pps.
9323-03 Botton 9323-04 South Wall		NU	water	962 pp6.
9323-05 South wall	$\frac{\eta(-)}{\eta(-)}$	WD	501	125 ppm
9323-06 South wall	11/	My	5017	6 25 ppm
9323-07 South Wall	111	NO	Sorl Sorl	L 25 ppm
9323-08 South wall	11	NJ	Soil	L25 ppm
9323-09 West 404"	11'	No	5011	52 ppm
9323-10 West wall		N	Soil	< 25 ppm
9323-11 North wal	///	NU	801	6 25 ppm 6 25 ppm 6 25 ppm
9323-12 North Wall 9323-13 East wall	// [/]	N/0	SUL	1 25 ppm
9323-14 Botton	131	ND NO	Soil	25 ppm
9323-15 Bottom	13/	No	sorl Sorl	8 pm 125 pp4
9323-14 Button	131	1/0	Sott	L 25 ppm
1323-17 Bottom	13'	MY	501	1 25 pm

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

December 17, 1993

Cayuse Environmental 60 Olden Way

Toppenish, WA 98948

Attn: Gordon Mull

P.O. #9323

Sample Matrix: Soil Date Sampled: 12-14-93

Date Received: 12-16-93
Date Analyzed: 12-17-93

Spectra Project: S312-118

RUSH

Spectra #	Sample ID:	WTPH-D. mg/Kg	Surrogate Recovery
8082	9323-004	<25	76
8083	9323-005	<25	74
8084	9323-006	<25	39*
8085	9323-007	<25	101
8086	9323-008	<25	76
8087	9323-009	52	59
8088	9323-010	<25	26*
8089	9323-011	<25	78
8090	9323-012	<25	103
8091	9323-013	<25	31*
8092	9323-014	58	65
8093	9323-015	<25	76
8094	9323-016	<25	52
8095	9323-017	<25	73

Out of limits due to sample matrix effects.

SPECTRA LABORATORIES, INC.



1106 Ledwich Ave., Yakima, WA 98902 (509) 248-4695 FAX (509) 452-1265

Chemistry, Microbiology, and Technical Services

CLIENT

: Cayuse Environmental

WTPH-418.1

Certificate of Analysis

Work Order # 13-12-112

<u>01</u>

88.

70.

TESTS PERFORMED AND RESULTS:

Analyte Units

Total Solids in Soil \$

mg/kg DB





2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

December 17, 1993

Cayuse Environmental 60 Olden Way Toppenish, WA 98948

Attn: Gordon Mull

P.O. #9323

Sample Matrix: Water
Date Sampled: 12-14-93
Date Received: 12-16-93
Date Analyzed: 12-17-93

Spectra Project: S312-118

RUSH

Spectra #	Sample ID;	WTPH-D, ug/L	Surrogate Recovery p-terphenyl
8080	9323-002	740	53
8081	9323-003	902	67

SPECTRA LABORATORIES, INC.

GEN 19 (CE)

DATE 11-15-43

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DATE 12-5-93 PAGE 2 OF 2

CHAIN OF CUSTODY RECORD

SPECIAL SHIPMENT. HANDLING OR STORAGE REQUIREMENTS. 24 Har Nows OBSERVATIONS, COMMENTS. SPECIAL INSTRUCTIONS SHIPMENT METHOD: Shaded areas for lab use only.
 Complete in ballpoint pen. Draw one line through Provide name and telephone of your contact person. zo 002-4-2mg0 4. Check off tests to be performed for each sample. OL TOTAL NUMBER OF CONTAINERS: Retain final copy after signing. Be specific in test requests. TESTING PARAMETERS errors and initial. INSTRUCTIONS: TELEPHONE_ NAME က် TIME DATE ME HJIM COMPANY RECEIVED BY RECEIVED BY PRINTED NAME PRINTED NAME (PRINTED NAME) TAUTUM MENTA SIGNATURE SIGNATURE () ~ 6-5 IN IN DATE 6323-011 12.15 SAMPLE NO DATE 4 223-015 12-1 F 12 × 21 112 × スペア JOB/PO NO SAMPLER (SIGNATURE) CL (L(A L)
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DATE 12-15-93 PAGE 1 OF 2

CHAIN OF CUSTODY RECORD

SPECIAL SHIPMENT. HANDLING OR STORAGE REQUIREMENTS: OBSERVATIONS, COMMENTS. SPECIAL INSTRUCTIONS 24 Row Rush SHIPMENT METHOD: 2. Complete in ballpoint pen. Draw one line through Оľ OOZH 4-ZWCO 4. Check off tests to be performed for each sample. Provide name and telephone of your contact person TOTAL NUMBER OF CONTAINERS: 1. Shaded areas for lab use only. Retain final copy after signing. Be specific in test requests. TESTING PARAMETERS errors and initial. INSTRUCTIONS: TELEPHÔNE. က် DATE RECEIVED BY PRINTED NAME PRINTED NAME LHUMONMENTE PRINTED NAME SIGNATURE SIGNATURE 10 13 15 10 15. 101 0/ SJ-7/ 気 2 0 1 41-21 1523 00 2 17-19 4323 003 Warish 4323 004 9323 008 9323 006 9323 007 4223 009 9323 013 4323214 2223 005 9323013 Mull 9323012 4323 011 RELINQUISHED BY CUMER PROJECT NAME. JOB/PO. NO. PRINTED NAMI ATTENTION: SIGNATURE COMPANY ADORESS NAME