

October 29, 1999

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ENVIRONMENTAL PROTECTION

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Wells Fargo Bank c/o Leah S. Goldberg, Esq. Hanson, Bridgett, Marcus, Vlahos & Rudy 333 Market Street, Suite 2300 San Francisco, California 94105-2173

QUARTERLY GROUNDWATER MONITORING AND REMEDIATION PROGRESS REPORT APRIL 1999 QUARTERLY EVENT FORMER COX CADILLAC FACILITY 230 BAY PLACE OAKLAND, CALIFORNIA

Dear Ms. Goldberg:

# **1.0 INTRODUCTION**

This report presents the results of groundwater monitoring conducted by PES Environmental, Inc. (PES) on April 13, 1999 at the former Bill Cox Cadillac facility at 230 Bay Place, Oakland, California. The work is being performed as part of response action to address releases from a former 10,000-gallon gasoline underground storage tank (UST) operated at the site by Bill Cox Cadillac. The location of the site is shown on Plate 1. The work was performed on behalf of Wells Fargo Bank (Wells Fargo), trustee for the property owner, and Hanson, Bridgett, Marcus, Vlahos and Rudy, legal counsel to Wells Fargo (Hanson, Bridgett) in accordance with the agreement with Bill Cox Cadillac, the former tenant.

Groundwater remediation and monitoring are being conducted at the site as part of interim soil and groundwater remedial actions in accordance with PES' *Revised Interim Remedial Action Plan* (IRAP) dated October 31, 1996 and *Addendum, Revised Interim Remedial Action Plan* dated November 26, 1996 (collectively referred to as Remedial Plan). The remedial work was requested by Alameda County Environmental Health Services (ACEHS) in a letter to Ms. Leah Goldberg of Hanson, Bridgett dated October 24, 1996. The ACEHS approved the Remedial Plan in a letter dated November 27, 1996.

The objective of the groundwater monitoring program at this site is to: (1) evaluate the presence of petroleum hydrocarbons in groundwater; and (2) provide data to assess the progress of the groundwater remedial program. The monitoring is performed in accordance

with California Regional Water Quality Control Board (RWQCB) guidelines and the Remedial Plan.

### 2.0 BACKGROUND INFORMATION

One groundwater monitoring well (Well MW-1) and seven temporary monitoring wells (Wells TW-1 through TW-7) were installed at the site by PES to investigate subsurface conditions following removal of a 3,000-gallon waste oil storage tank in December 1988. MW-1 was installed in February 1993 down gradient of the former waste oil tank and a groundwater sample collected from it in March 1993. Elevated concentrations of total petroleum hydrocarbons quantified as gasoline (TPHg) were detected in the sample analyzed from Well MW-1. Gasoline detected in groundwater was characterized as "fresh" and no waste oil constituents were detected. Temporary wells, Wells TW-1 through TW-7 were subsequently installed in March 1993 to investigate the degree and extent, and the likely source of the gasoline contamination in groundwater. Results of the additional investigation indicated that elevated TPHg and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in four of the temporary wells and in Well MW-1. The highest concentrations of petroleum hydrocarbon constituents were detected in groundwater samples from two wells (TW-5 and TW-7) closest to a 10,000-gallon gasoline tank and product piping located to the west of the former waste oil tank. The results of the investigations were presented in PES' report, Soil and Groundwater Investigation, Bill Cox Cadillac, 230 Bay Place, Oakland, California dated December 23, 1993. The well locations and former waste oil tank location are shown on Plate 2.

The 10,000-gallon underground gasoline tank and product piping were removed by DECON Environmental Services of Hayward, California and observed and documented by Eisenberg, Olivieri & Associates (EOA) of Oakland, California in January 1994. During removal, a hole was observed in the product piping between the tank and dispenser. Floating free-phase product was observed on the groundwater surface in the tank excavation. EOA, on behalf of Bill Cox, subsequently performed limited investigations to evaluate the offsite extent of gasoline contamination. EOA performed quarterly groundwater monitoring on site between December 1994 and February 1996 using well MW-1, TW-2, TW-6 and TW-7.

Soil and groundwater remediation was subsequently requested by ACEHS in a letter to Hanson, Bridgett dated October 24, 1996. In the letter, ACEHS specified that soil remediation consisting of excavation of hydrocarbon-affected soil, and groundwater remediation consisting of oxygen introduction was required. The PES Remedial Plan was developed in response to that request. As part of the Remedial Plan, site characterization, additional well installation, soil remediation, baseline groundwater monitoring, and initial groundwater remediation were conducted by PES between June 1997 and April 1999. The results of work conducted between June 1997 and April 1999 were previously submitted to you

in PES' draft report, Site Characterization and Interim Remedial Actions, Former Cox Cadillac, Oakland, California, dated May 18, 1999.

A pilot program commenced in January 1999 to test remediation of groundwater by applying a combination of in-situ bioremediation methods to introduce oxygen and nutrients into groundwater at the site to enhance natural biodegradation rates of petroleum hydrocarbons. The methods include: (1) adding a nutrient- and hydrogen peroxide-enriched water (hereinafter referred to as enriched water); and (2) placement of Oxygen Releasing Compound (ORC) in selected wells at the site. The April 1999 monitoring is the first monitoring event since the groundwater remediation program was initiated by PES. The results of the April 1999 groundwater monitoring are presented below.

# 3.0 GROUNDWATER MONITORING ACTIVITIES

# 3.1 Depth to Groundwater Measurements

Water levels were measured by PES at monitoring wells MW-1, MW-2, TW-2, TW-4, TW-5, TW-6, and TW-7 on April 13, 1999. Depth-to-groundwater measurements were obtained using an electronic water-level indicator and recorded to the nearest 0.01-foot. The water-level indicator was cleaned with a solution of non-phosphate detergent and de-ionized water and then rinsed before each use. Groundwater elevation data are presented in Table 1 and groundwater elevation contours are presented on Plate 3. Prior to measuring groundwater levels, dissolved oxygen concentrations were measured in several wells. Dissolved oxygen measurement procedures and results are described below.

# 3.2 Groundwater Sampling and Analyses

Groundwater samples were collected from wells MW-1, MW-2, TW-2, TW-6, and TW-7 on April 13, 1999. After dissolved oxygen and water-level measurements were obtained, the wells were purged by bailing until approximately three well volumes of water were removed. During purging, the water was monitored for pH, temperature, conductivity, and turbidity. Purge water was collected in DOT-approved 55-gallon steel drums and stored on site. Following well purging, a groundwater sample was collected from each well using a disposable bailer. The sample was transferred to the appropriate laboratory sample containers using a bottom draining bailer stopcock. The sample containers were filled slowly to minimize sample volatilization and ensure that the sample was free of air bubbles. The sample containers were labeled with project site, well identification number, sample number, sampling date and time, and requested analyses, and placed in a thermally insulated chest for transportation to the project laboratory. Well sampling documentation is presented in Appendix A.

The groundwater samples were transported in a chilled, thermally insulated cooler under chain-of-custody protocol to Entech Analytical Labs, Inc. of Sunnyvale, California, a California Department of Health Services-certified laboratory. The groundwater samples were analyzed for TPHg using EPA Test Method 8015 modified, and MTBE and BTEX using EPA Test Method 8020. Groundwater sample analytical results are presented in Table 2 and shown on Plate 4. Copies of the laboratory reports and chain-of-custody documentation are presented in B.

# 3.3 Enriched Water Introduction

An oxygen source in the form of a solution of potable water, hydrogen peroxide, and a blend of nutrients (enriched water) was prepared and introduced to wells TW-4, TW-5, TW-6, TW-7, and MW-1 on April 13, 1999. Concentrated hydrogen peroxide was added to a mixing tank where it was combined with potable water and small quantities of nitrogen and phosphorus nutrients. A centrifugal pump, gate valves, flow meters, and pipeline delivery system were attached to the mixing tank to allow controlled addition of enriched water to the designated wells.

The enriched water was mixed at a concentration to maximize oxygen delivery and prevent accumulation of biomass in the immediate vicinity of the wells while reducing the potential for precipitation of inorganic carbonates. An approximate volume of 497 gallons of enriched water was introduced into the wells on April 13, 1999 at a concentration of 1,050 parts per million (ppm) hydrogen peroxide. A total of approximately 681 gallons of enriched water at a concentration of 1,050 ppm hydrogen peroxide has been introduced into the wells since March 1999. Enriched water introduction through April 13, 1999 is summarized in Table 3.

Following enriched water introduction, Oxygen Releasing Compound (ORC) was installed in each of the five designated wells. The ORC is manufactured by Regenesis Bioremediation Products of San Juan Capistrano, California. The ORC is a powder form of time release magnesium peroxide. The ORC is blended with an inert carrier matrix of sand and the blend is contained in an approximately two-inch diameter polyethylene webbed sock in one foot lengths (ORC Filter Sock). The ORC Filter Socks become saturated following insertion into groundwater, and begin releasing oxygen into the subsurface. The ORC Filter Socks provide continuous supply of oxygen between enriched water introductions. Enriched water introductions are conducted twice per quarter (every six weeks).

### 3.4 Dissolved Oxygen Measurements

Dissolved oxygen measurements were collected by PES twice on April 13,1999. Total dissolved oxygen was measured in monitoring wells MW-1, MW-2, TW-2, TW-4, TW-5, TW-6, and TW-7 at the start of the day prior to measuring groundwater levels and purging and sampling, and at the end of the day after introduction of enriched water. The measurements

were collected from each well within the middle portion of the water column using a YSI, Inc., Model 51B Dissolved Oxygen (DO) Meter. The equipment was calibrated according to the manufacturer's specifications before use. Prior to each measurement, the portion of the equipment submerged in the well was cleaned with a solution of non-phosphate detergent and de-ionized water then rinsed with de-ionized water. Total dissolved oxygen measurements through April 13, 1999 are summarized in Table 4.

# 4.0 GROUNDWATER MONITORING RESULTS

# 4.1 Groundwater Elevation Measurements

Depth-to-groundwater data collected from wells MW-1, MW-2, TW-2, TW-4, TW-5, TW-6 and TW-7 on April 13, 1999 were converted to groundwater elevations referenced to site datum. Groundwater elevations ranged from 92.18 feet in well MW-2 to 98.00 feet in well MW-1. Groundwater flow direction at the site is to the southwest, at a hydraulic gradient of approximately 0.052-foot per foot. No floating free product or hydrocarbon sheen was observed in the wells. Petroleum hydrocarbon odors were observed in purge water from well MW-1 and TW-7. Groundwater elevation data are presented in Table 1 and elevation contours are presented on Plate 3.

# 4.2 Groundwater Sample Analytical Results

The analytical results of the groundwater samples collected on April 13, 1999 are presented in Table 2 and shown on Plate 4. TPHg was detected in the samples from wells MW-1 and TW-7 at concentrations of 29,000  $\mu$ g/L and 54,000  $\mu$ g/L, respectively. MTBE was detected in the samples from wells MW-1, MW-2, TW-6, and TW-7 at concentrations of 520  $\mu$ g/L, 3,800  $\mu$ g/L, 22  $\mu$ g/L, and 1,200  $\mu$ g/L, respectively. Benzene was detected in the samples from wells MW-1, MW-2, TW-6 and TW-7 at concentrations of 1,500  $\mu$ g/L, 0.76  $\mu$ g/L, 0.70  $\mu$ g/L, and 4,500  $\mu$ g/L, respectively. The highest concentrations of toluene, ethylbenzene and total xylenes were detected in the sample from well TW-7 at 1,800  $\mu$ g/L, 180  $\mu$ g/L, and 8,200  $\mu$ g/L, respectively. Copies of the laboratory reports and chain-of-custody documentation are presented in Appendix B.

# 4.3 Dissolved Oxygen Measurement Results

Total dissolved oxygen concentrations measured in the seven wells on April 13, 1999, before enriched water introduction, ranged from 0.2 to 14.2 milligrams per liter (mg/L). Dissolved oxygen concentrations in the five wells following enriched water introduction (Wells TS-4, TS-5, TS-6, TS-7, and MW-1) were greater than (>) 15 mg/L, the maximum range of the dissolved oxygen meter used. Dissolved oxygen concentrations in the two wells that did not have enriched water introduced (Wells TW-2 and MW-2) were 5.8 and 0.6 mg/L,

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respectively. Dissolved oxygen concentrations measured during the April 13, 1999 monitoring event are included with the well sampling documentation presented in Appendix A. Dissolved oxygen concentrations measured through April 13, 1999 are presented in Table 4.

Dissolved oxygen measurements are used as an indication of the effectiveness of the oxygenation achieved during groundwater remediation. Dissolved oxygen is an indirect indicator of hydrocarbon concentration. In areas of high hydrocarbon concentration, dissolved oxygen is consumed by the native bacteria and residual dissolved oxygen concentrations are expected to be low. Conversely, effective nutrient addition will be demonstrated by elevated concentrations of dissolved oxygen in the monitoring wells.

### 5.0 SUMMARY

Results of the April 1999 groundwater elevations indicate a general decrease since the January 1999 baseline sampling event. As with historical observations, the groundwater flow direction continues to be toward the southwest.

Concentrations of petroleum hydrocarbons detected in the wells in April 1999 indicate a general decrease compared to those detected during the baseline event in January 1999 with the exception of well TW-7. TPHg, MTBE, Toluene, and Total Xylene concentrations were higher in the groundwater sample from well TW-7 in April 1999 than in January 1999. A significant reduction of petroleum hydrocarbon concentrations was observed in the sample from Well TW-6 since January 1999. Consistent with historical findings, the highest concentrations were detected in the groundwater from wells nearest to the former gasoline UST and product piping, specifically Wells MW-1 and TW-7.

MTBE concentrations in well MW-2, located offsite and downgradient adjacent to several utility trenches, are significantly higher than in onsite wells. The high concentrations of MTBE detected in samples from well MW-2 are likely the result of groundwater being affected by elevated concentrations from offsite sources that are being conveyed toward the site via preferential flow as a result of utility trenches adjacent to the well. In 1993 PES performed sampling of groundwater from Wells MW-1, TW-4, TW-5, TW-6, and TW-7 for analyses by EPA Test Method 8260. No MTBE was detected in the samples at that time. Additionally, a utility location assessment was conducted by EOA in late 1995/early 1996. EOA identified numerous utility trenches and vaults along the downgradient property boundary and within Vernon Street, Bay Place, and Harrison Street surrounding the site. EOA interviews with utility providers indicated most utility trenches are backfilled with permeable materials including gravel and sand. The depth of many of these utility trenches is sufficient to intercept shallow groundwater flow in the site vicinity. The results of the EOA utility assessment were presented in a document titled *Corrective Action Plan Development Report, Phase I, Cox Cadillac, 230 Bay Place, Oakland, California*, dated April 1, 1996.

Dissolved oxygen concentrations were elevated on April 13, 1999 as a result of oxygen enhancement following introduction of the enriched water solution as part of the bioremediation program.

In accordance with the Remedial Plan, PES will continue with quarterly groundwater monitoring and introduction of enriched water twice per quarter. Based on the results presented herein, no modifications to the remediation program are warranted at this time.

If you have any questions or comments, please do not hesitate to call either of the undersigned.

Yours very truly,

#### PES ENVIRONMENTAL, INC.

Rossitt

Christopher D. Rossitto Project Geologist

Andrew A. Briefer, P. E. Principal Engineer

Attachments:	Table 1	Groundwater Elevation Data
	Table 2	Groundwater Sample Analytical Results
	Table 3	Summary of Enriched Water Introduction to Wells
	Table 4	Summary of Total Dissolved Oxygen Measurements
	Plate 1	Site Location Map
	Plate 2	Site Plan and Well Location Map
	Plate 3	Groundwater Elevation Contours on April 13, 1999
	Plate 4	Distribution of Dissolved Hydrocarbons in Groundwater -
		April 13, 1999
	Appendix A	A Well Sampling Documentation
	Appendix I	B Laboratory Analytical Reports and Chain of Custody

Documentation

cc: Ms. Cheryl Howell - Greater Bay Trust Company

Mr. Thomas Peacock – Alameda County Environmental Health Services Mr. Mark Owens – California UST Cleanup Fund

# Table 1Groundwater Elevation DataInterim Remedial ActionsFormer Cox Cadillac, 230 Bay PlaceOakland, California

Well Number	Date Measured	Top-of-Casing Reference Elevation (feet*)	Depth to Water (feet BTOC)	Groundwater Elevation (feet*)
MW-1	1/12/99	100.00	2.79	97.21
	4/1 <b>3/99</b>	100.00	2.00	98.00
MW-2	1/12/99	97.48	5.62	91.86
	4/1 <mark>3/99</mark>	97.48	5.30	92.18
TW-2	1/12/99	100.43	1.91	98.52
	<b>4/13/99</b>	1 <b>00.43</b>	2.51	<b>97.92</b>
TW-4	1/12/99	99.35	NM	NA
	<b>4/13/99</b>	<b>99.3</b> 5	1.82	97.53
TW-5	1/12/99	99.40	NM	NA
	4/13/99	<b>99.40</b>	1.96	97.44
TW-6	1/12/99	98.75	5.52	93.23
	4/1 <b>3/99</b>	<b>98.75</b>	<b>4.91</b>	<b>93.8</b> 4
TW-7	1/12/99	97.96	4.81	93.15
	<b>4/13/99</b>	<b>97.96</b>	<b>4.73</b>	<b>93.23</b>

#### Notes:

\* = Referenced to site datum
BTOC = Below top of casing
NA = Data not available
NM = Depth to water not measured

Table 2
Groundwater Sample Analytical Results
Interim Remedial Actions
Former Cox Cadillac, 230 Bay Place
Oakland, California

Weli	Samole	TPH as Gasoline	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
Number	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
				· · · · · · · · · · · · · · · · · · ·			
MW-1	1/12/99	39,000	800	2,600	970	2,900	5,700
	4/13/99	29,000	520	1,500	500	<50	4,000
MW-2	1/12/99	<50	2,900	1.5	<0.50	<0.50	< 0.50
	4/13/99	<50	3,800	0.76	< 0.50	< 0.50	<0.50
TW-2	1/12/99	<50	<5.0	<0.50	< 0.50	<0.50	<0.50
	4/13/99	<50	< 5.0	<0.50	< 0.50	< 0.50	<0.50
TW-6	1/12/99	29,000	210	9,900	4,100	1,000	4,000
	4/13/99	<50	22	0.70	< 0.50	< 0.50	0.62
TW-7	1/12/99	29,000	<100	7,300	670	2,700	960
	4/13/99	54,000	1,200	4,500	1,800	180	8,200
					1		

Notes:

TPH - Total Petroleum Hydrocarbons

MTBE - Methyl tert-butyl ether

 $\mu$ g/L = Micrograms per liter.

<0.50 = Not detected at or above indicated laboratory reporting limit.

Table 3
Summary of Enriched Water Introduction to Wells
Interim Remedial Actions
Former Cox Cadillac, 230 Bay Place
Oakland, California

			Volume of Enriched	Concentration	Amount of O <sub>2</sub>
Well	Date	Flow Rate	Water Introduced	of H <sub>2</sub> O <sub>2</sub>	Introduced
Name	Introduced	(gpm)	(gallons)	(ppm)	(pounds)
MW-1	3/11/99	0.04	2.2	1,050	0.09
	3/17/99	0.33	70.2	1,050	2.75
	4/13/99	0.13	26.5	1,050	1.04
<b>T</b> 144 4	0/11/00	0.05		1 050	0.10
I W-4	3/11/99	0.05	3.0	1,050	0.12
	3/17/99	0.01	2.7	1,050	0.11
	4/13/99	0.12	23.8	1,050	0.93
TW-5	3/11/99	0.07	4.4	1.050	0.17
	3/17/99	0.05	10.3	1.050	0.40
	4/13/99	0.36	70.8	1,050	2.77
TIME	2/11/00	0.20	17.0	1.050	0.69
1 44-0	3/11/99	0.29	17.3 51.0	1,050	0.00
	3/17/99	0.24	51.9	1,050	2.03
	4/13/99	1.03	322	1,050	12.02
TW-7	3/11/99	0.12	6.9	1,050	0.27
	3/17/99	0.07	15	1,050	0.59
	4/13/99	0.28	54.2	1,050	2.12
			· · · · · · · · · · · · · · · · · · ·		
		TOTAL	681.2	TOTAL	26.70

#### Notes:

gpm = gallons per minute

ppm = parts per million

Approximately 20 ppm of nitrogen as nitrate and 37 ppm of phosphate was present in solution.

# Table 4Summary of Total Dissolved Oxygen MeasurementsInterim Remedial ActionsFormer Cox Cadillac, 230 Bay PlaceOakland, California

Well	Date	Time	Total Dissolved	Notes
Number	Measured	of Day	Oxygen (mg/L)	
MW-1	1/12/99	15:30	3.4	(1)
	3/11/99	15:46	0.72	(1)
	3/17/99	12:30	14.1	(2)
	3/17/99	18:13	>15.0	(3)
	4/13/99	9:44	8.9	(2)
		NA	NA	(3)
MW-2	1/12/99	12:30	3	(1)
	4/13/99	9:17	0.2	(2)
		19:11	0.6	(3)
TW-2	1/12/99	15:03	5.5	(1)
	4/13/99	<del>9</del> :10	2.6	(2)
		19:06	5.8	(3)
TW-4	3/11/99	15:20	3.4	(1)
	3/17/99	12:18	14.4	(2)
	3/17/99	17:54	12.6	(3)
	4/13/99	9:00	12.2	(2)
		19:03	>15.0	(3)
TW-5	1/12/99	16:40	1.7	(1)
	3/11/99	15:36	0.58	(1)
	3/17/99	12:20	14.3	(2)
	3/17/99	17:57	14.6	(3)
	4/13/99	9:39	3.8	(2)
		19:28	>15.0	(3)
TW-6	1/12/99	15:02	3.9	(1)
	3/11/99	15:39	0.62	(1)
	3/17/99	12:23	14.1	(2)
	3/17/99	18:06	>15.0	(3)
	4/13/99	9:35	14.2	(2)
		19:23	>15.0	(3)
TW-7	1/12/99	13:10	2.7	(1)
	3/11/99	15:42	0.74	(1)
	3/17/99	12:25	6.5	(2)
	3/17/99	18:12	14	(3)
	4/13/99	<del>9</del> :25	0.4	(2)
		19:16	>15.0	(3)

#### Notes:

>15 = Above indicated equipment quantification maximum.

(1) = Baseline measurement taken before initial introduction of enriched water

(2) = Measured prior to enriched water introduction

(3) = Measured after enriched water introduction

mg/L = milligrams per liter

An initial approximate 184 gallons of enriched water was introduced to wells MW-1, TW-4, TW-5,

TW-6, and TW-7 in the late afternoon of March 11 and 17, 1999 during setup, testing, and refinement of the remediation system. March 17 measurements reflect the initial introduction of enriched water.



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PES Environmental, Inc.

# APPENDIX A

# WELL SAMPLING DOCUMENTATION

WATE	ER LE	VEL I	DAT	AF	ORI	M	Projec Job No Field P	CT: Cor Cadillac 167-002-01-004 PERSONNEL: CD
MEASURING	INSTRUMENT	Г:		RECOR				
STEEL TAI	PE	OTHER-TY	PE			[		
DELECTRIC	SOUNDER	SERIAL NO.						ER + DESCRIBE
WELL, I.D.	TIME	REFERENCE ELEVATION (feet)	DEPTH 1st	TO WAT	ER (feet)		ATION	COMMENTS (well condition, odor, presence of product, etc.)
TU ~4	8:14		1.82					
Tw-2	8:30	i <u> </u>	2.51			1		
MW-2	8:37		530			1		
ru - 7	8:34		472	<u> </u>		1		
rw-6	8:37		4.91			1		
rw-s	8:38		1.96			<u> </u>		
76-1	8:39		2.00					
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GROUN	PES En Engineering IDWATE	IVIRONMO & Environm ER SAME	Page: 1 of 1 Date/Time: 4/13/99 Project Name: Cox Cadillac, Job No.: 162-002-01-005 Recorded By: Chris Delaney Sampled By: C.J.D.					
Wett No.;	M. 1 1	Well Type:		Monitor	ing			
/		Well Materia	l:	D PVC	······	Stainless Ste	xel	D Other
				WELL PUR	RGING			
PURGE VOLU	IME				·	PURGING METH		
Casing Diame	er (D in inches)	)				1 Baller - Type	Disnar	able
2-Inch	4-inch	6-inch	Other			Π Submersible		
Total Depth of	Casing (TD in f	eet below top o	$(casing): \overline{2}$	0,00			- contailinge	
Water-Level D	epth (WL in fee	t below top of c	asingt:	.00			·····	
			usuig)			PUMP INTAKE St		
						Depth in feet (BTO	C):	Li Other
PURGE VOLU	ME CALCULA	TIONS:				Screen interval in f	et (BTOC) from	to
FIELD PARAN	th Depth to 1	Water W	rell Diameter	casing volu	nes x 0.04(	8 = <u>X, X/</u> Calculated Purg	gallons vo Volume	· · · · · · · · · · · · · · · · · · ·
>	START TIME	<u> </u>	3					
Time	Total Gallons		· Conductivitiy	Tommonting	Tudit			
12:24	2.0	1 <u>10</u>	2000	N4 A	Turbiary	Observations (color	, well condition, od	lor, cloudiness, etc.)
12:40	4.0	511	2150	767	1.0.2	14. 6.		·
12:45	6.0	1. 90	3170	760	1241	h 60	<u>40 Y</u>	· · · · · · · · · · · · · · · · · · ·
12:51	8,0	1,95	2230	74.4	118.1	39	47	
12:50	9.0	6.89	2220	75.4	119.9	<u> </u>	И	
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SAMPLING MET	100							
Baller - Type:	Tellon D	isposable	)					
Netl No.	Sample No.	Time	Volume Collecte	đ	Analyses Req	uested	Preservatives	Laboratory
MW-1	MW-1	1428	3 Yo	Ax	8020. 801	Smed. MTBE	HU1	Esteal
WALITY CONTR	OL SAMPLES	1					<u> </u>	
iample Type	Sample No.	Time	Volume Collecte	d I	Analyses Reg	uested	Preservatives	Laboratory
rip Blank			·					
ield Blank								
					· · · · ·		·	1
upucate								1

GROU	PES En Engineering NDWATE	Vironme & Eaviroame R SAMP	ntal, Inc. Intal Services PLING FC	Page: of   Date/Time: 4/13/29   Project Name: Cox   Job No.: 1/07-002-01.009   Recorded By: C)   Sampled By: U			
Well No.:		Well Type:	· ··· ·· · · · · · · · · · · · · · · ·	Monitori	ng	C Extraction	C Other
1	IW-L	Well Material		D PVC		Stainless Steel	Other
				WELL PUR	GING		
PURGE VOL	UME				- <u>,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PURGING METHOD	
Casing Diam	eter (D in inches)	I				M Baller - Turne: ALZ	nacable
12 2-Inch	4-inch	6-inch	C Other				posone_
Total Deoth o	f Casing (TT) in f	eet below top of	(casing) 2/	? <u>)</u>			nugal LJ Bladder
Mator Laval	South Add to God		· · · · ·			Li Other - Type:	
	ychai (aar 11 tee	nerow top of ca	ising): <u>8. c</u>	<u>&gt;</u>		PUMP INTAKE SETTING	
						Denth in feet (BTOC):	Top 🛛 Other
PURGE VOL	UME CALCULA	TIONS:				Screen interval in feet (BTOC) fr	fo
(	pth Depth to 1	)×	2x3 ell Diameter	casing volu	mes x 0.040	8 = <u>7, 78</u> gallor Calculated Purge Volume	15
FIELD PARA	METER MEASU	REMENT					
`	START TIME	15:50					· · · · · · · · · · · · · · · · ·
Time	Total Gallons Removed	pH	Conductivitiy	Temperature	Turbidity	Obconstions (edge well our file	
13:5	5 2.0	6.45	2540	69.4	>200	Order radiusts (Color, Well Conditio	n, odor, cloudiness, etc.)
14:00	4,0	674	3490	68.9	>200		
14:0	6.0	6.71	3560	69,4	>200		· · · · · · · · · · · · · · · · · · ·
14:14	8.0	1.69	3520	63.2	>200		
						· · · ·	······································
· · · · · · · · · · · · · · · · · · ·							
		1					
							•
· · · · · · · · · · · · · · · · · · ·							
·	· · · · · · · · · · · · · · · · · · ·		·····				
·	<u> </u>						
		<u> </u>			· · · · · · · · · · · · · · · · · · ·		
	<u> </u>						· · · · · · · · · · · · · · · · · · ·
	> STOP TIME_	14:14		>	TOTAL GALL	.ONS REMOVED <u>8.0</u>	
		······					
SAMPLING ME	THOD					· · · · · · · · · · · · · · · · · · ·	<u></u>
Baller - Type:	Tetlon D	isposable	,				
Well No.	Sample No.	Time	Volume Collecte	d	Analyses Req	uested Preservative	s Laboratory
nw-2	MWJ-2	14:42	3 10	Aź	802A C 00	the later to be held the	Ed. 1.
QUALITY CONT				د. 	00-0) 801	MON ATBEL FUL	Enteen
Sample Type	Sample No.	Time	Volume Collecte	d	Analyses Rea	lested Droom the	1 charator
Trip Blank	1		- startio Grandric			rieservatives	
	1						
rield Blank		l					
	1					· ·	1

GROUN	Engineering DWATE	& Eavironnie R SAMP	Date/Time: 4/13/99 Project Name: Con Cadillac Job No.: 16 7 - 002 - 01 - 009 Recorded By: Chris Defancy Sampled By: A1 11				
Well No.:		Well Type:		Monitoria	Ŋ	C Extraction	C Other
1.00	~	Ivveu Material:			GING	LI Stamless Steel	L Other
PURGE VOLU	<u></u>					PURGING METHOD	
Casing Diamete	er (D in Inches)					A Batter - Type: Toffa	~ Disnocality
2 2-inch	4-Inch	Ginch	Other			C Submersible C C	entrifugal [] Bladder
Total Depth of (	Casing (TD in fe	et below top of	casing): 7	63		Other - Type:	
Water-Level De	pth (WL in feet	below top of ca	sing): 2.	51		PUMP INTAKE SETTING	· · · · · · · · · · · · · · · · · · ·
						Near Bottom	ear Top [] Other
						Depth in feet (BTOC):	· · · · · · · · · · · · · · · · · · ·
	MC CALCULA]	IUNS;			-	screen interval in feet (BTO	C) from to
( <u>7,6</u> Wolt Dep	<u>3</u> , the Depthe to V	<u>51</u> )x Vator W	2 <sup>2</sup> x3	casing volur	nes x 0.040	18 = <u>2, 51</u> ga Calculated Punge Volume	allons
FIELD PARAM	ETER MEASU	REMENT	•			· · ·	-
>	START TIME		_		۰.		
	Total Gallons			<b>T</b>	Total		••••
13:14		10.59	(unnos/cm3)		FUDICITY	Observations (color, well cor	idition, odor, cloudiness, etc.)
13:19	2.0	6.75	3870	NJ. 5	1831		· ·
13:21	3,0	6.53	3970	51.3	181.2	Well is De	asotevic.
			14. 1				
	<u> </u>						
	ļ						
· · ·	<b> </b>			-			
	<u> </u>	<b></b>					•
· · · · · · · · · · · · · · · · · · ·		<b></b>					
			· · · · ·				
		<b> </b>		•		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
							······································
>		13:24	2	>	TOTAL GAL		)
•		· · · · · ·		<u></u>		•	
SAMPLING MET	HOD			¥¥£LL, i		3	
	Tellon C	)isposable	•				
Baller - Type: _	Sample No.	Time	Volume Collect	ed	Analyses Rec	ruested Preserv	atives Laboratory
Baller - Type: Well No		14.14	3 1/4	A	8030.6	2015 und ATDA HAL	l Entral
Baller - Type: _ Well No. TU-2	TN-2	1939	איז ב ו			WE WITH AN OK	
Baller - Type: _ Well No.	TN-2	1939	Y0			<b>4</b>	
Baller - Type: Well No. V U - 2 RUALITY CONTI Sample Type	TN-2 ROL SAMPLES Sample No.	1739 Time	Volume Collect	ed	Analyses Rec	juested Preserv	atives Laboratory
Baller - Type: Netl No. VU-2 MALITY CONTI Sample Type Intp Blank	TV-2 ROL SAMPLES Sample No.	 Time	Volume Collect	xd	Analyses Rec	uested Preserv	atives Laboratory

PES Environmental, Inc. Engineering & Environmental Services GROUNDWATER SAMPLING FORM							Page:ofDate/Time: $L_1 / 13 / Q.Q.$ Project Name: $Cax$ Job No.: $U_0 ?7 - CA L - 01 - 00$ Recorded By: $C.D.$ Sampled By: $U_1$			
Well No.:	1-4	Well Type:		Monitorir	ng		Extraction		C Other	
·	<u> </u>	Well Material					Stainless Steel		C Other	
				WELL PUR	GING		<u> </u>		·	
PORGE VOLUT Casing Diamete 121 2-Inch Total Depth of C Water-Level Dep PURGE VOLUT	ME r (D in Inches) D 4-Inch Casing (TD in fe pth (WL in feet ME CALCULAT	C 6-Inch tet below top of below top of ca <u>FIONS;</u>	□ Other casing): asing):	<u>6</u> V		PURG VS ( PUMP PUMP Depth Screen	Bailer - Type:@     Submersible     Submersible     Other - Type:     PINTAKE SETTING     Near Bottom     In feet (BTOC):     n Interval in feet (BTOC)	Centrifugal Centrifugal Near Top OC) from _	<u>Disposa</u> /ble/ □ Bladder □ Other	
( <u>り</u> ,6 Well Dept	h Depth to V	() x Vater W	2 2x3 ( ell Diameter	casing volum	nes x 0.040	× 8= c	1, 3/ (	gallons ne		
FIELD PARAM	ETER MEASU	REMENT	<b>X</b>	•						
>	START TIME	11.50	Conductivities			· · ·				
Time	Removed	pH -	(umhos/cm3)	Temperature	Turbidity	Obser	vations (color, weil o	ondition, ode	or, cloudiness, etc.)	
0.33	0.33	5.25	1320	64.4	88.2				· · · · ·	
11:34	0.66	8,09	320	63.1	92.4			:		
	1.0	7,94	1330	62.8	191.7					
11.41		1 V,89	1350	63.0	39.0					
	<u> </u>	15	Lena	vering						
		<u></u>	-						· · · · · · · · · · · · · · · · · · ·	
			<u> </u>	·					· · · · · · · · · · · · · · · · · · ·	
		<u>  ·</u>								
		<u> </u>	<u> </u>					-		
	·· · · · · · · · · · · · · · · · ·	[	<u> </u>		·		· · · · · · · · · · · · · · · · · · ·			
	· · · · · · · · · · · · · · · · · · ·						·	<del>.</del>		
		<u> </u>	<b> </b>				· · · · · · · · · · · · · · · · · · ·			
							<u> </u>			
>	STOP TIME	11:43	<u>.                                    </u>	>			EMOVED 12	6		
									,	
		<del></del>	·	WELLS	SAMPLING	<u>}                                    </u>	· · · · · · · · · · · · · · · · · · ·			
SAMPLING METH Baller - Type:	Tefler 1	Disposable	/						- · · · · · · · · · · · · · · · · · · ·	
vvell No.	Sample No.	Time	Volume Collecte	xd	Analyses Req	uested	Prese	rvatives	Laboratory	
TW-6	TW-6	14:15	3 Va	7A3	8020,8010	ind.	MTAE H	HCL.	Entech	
QUALITY CONTR	OL SAMPLES						· · · · · · · · · · · · · · · · · · ·			
Sample Type	Sample No.	Time	Volume Collecte	d	Anatyses Req	uested	Prese	rvatives	Laboratory	
Trip Blank										
									1	
Field Blank			1				•			

PES Environmental, Inc. Engineering & Environmental Services GROUNDWATER SAMPLING FORM							Page: of Date/Time: 4/13/99 Project Name: Cox Cadiflac Job No.: 167-002-01-004 Recorded By: (1) Sampled By: 11					
سي: Well No	1. <b>D</b>	Well Type:	······	Monitoria	ng		Extraction		C Other			
1	W-')	Well Material		D PVC			Stainless Ste	el	Other			
-				WELL PUR	GING							
<b>URGE VOLU</b>	ME			<u></u>		PUF	GING METHO	<u></u>	<u> </u>			
Sasing Diamet	er (D In Inches)					đ	Bailer - Type:	Disnoza	ble			
2 -Inch	🛛 44nch	🛛 6-Inch	Other			۵	Submersible		Bladder			
fotal Depth of (	Casing (TD in fe	et below top of	(casing): <u>9</u> ,	.9			Other - Type:	<u> </u>	<u></u>			
Nater-Level De	epth (WL in feet	below top of ca	using): <u>4</u>	23		<u>pur</u>	<u>IP INTAKE SE</u> Near Boltom		C Other			
						Dep	th in feet (BTO	C):				
PURGE VOLU	ME CALCULA	TIONS:	•			Scre	en interval in fe	et (BTOC) from	to			
( 9, 9 Well Dep	1	73')× Nater W	2x3	casing volur	nes x 0.040	8=_	Q,53 Calculated Pung	s Volume	•			
FIELD PARAM	ETER MEASU	REMENT						· · ·				
>	START TIME		<del></del>		·		_	• • • • • •				
Time	Total Gallons Removed	nH	Conductivitiy	Tomnardura	Turbicon	0			an aloudiooss stat			
11:55	0,8	7,15	527	65.8	83.5		HC A	dor.	u, woudiness, e.c.)			
11:59	1.6	6.85	481	64.9	85,6		11	4	<u></u>			
12:02	2.3	5.01	5/4	63.7	. 81.8		4	11 - L				
12:08	3,0	6.87	572	63.3	84.3	<u> </u>	4	· 4				
	<u> </u>	<b> </b>	<b> </b>			<u>`</u>		······································				
·												
•		<u> </u>		· · · · ·					· .			
									<u> </u>			
			i	İ		<b> </b>	: :	<u>.</u>				
									·			
		ļ							· · · · · · · · · · · · · · · · · · ·			
	<b> </b>	<u> </u>	<b> </b>	•			·.					
	STOP THE	12.10	Į	I				- <b>o</b> /\				
/		14.10		>	IOTAL GAL		S REMOVED	3.0	•			
AMPLING MET				WELL	SAMPLING	3	<u> </u>	·····				
Saller - Type:	letion Vi	Ispasalle										
TTUED	Sample No.	lime	Volume Collect	edi	Analyses Rec	rueste	x <b>i</b>	Preservatives	Laboratory			
<u>• 0- /</u>	16-7	14:21	3 VC	A <sub>S</sub>	8015 nod,	80.	20, ATBE	HUL	Entech			
UALITY CONT	ROL SAMPLES	Time	Value Caller	~	Anatana C				k			
do Black	Sample NO.	1 4 110	VORUME COLLECT	<u></u>	Analyses Keo	lacite	×0	Preservatives	Laboratory			
					·							
ield Blank		[	·····					·				
)vplicate	1	1	1					1	1			

	PES Environmental, Inc. Engineering & Environmental Services	PROJECT OF JOB NO. 1(17. 0201, 004 FILE NAME
	PROJECT Cox Cadillac	COMPUTED BY CO DATE 4/13/99
• - '	SUBJECT DO Measurements	CHECKED BY DATE
		·····

.

•

·	Well Name	Time	NO (mg/4)
lst	TW-4	9:00	12.2
Round	TW-a	9:10	2.6
	MW-2	9:17	0-2
	TW-D	9:25	0.4
	TW-6	9:25	14.2
	TW-5	19.39	3.8
	MW-1	91:44	8.1
	Tank	9:50	>15.0
$\sim$			·
Final	TW-4	19:03	>15.0
Round	TW-2	19:06	5,8
-	MW-2	19:11	0,6
	TW-7	19:16	>15.8
	TW-6	19:23	>15.0
	TW-S	19:28	SISD
:	mw-1	19:34	>15.0

PES Environmental, Inc.

# APPENDIX B

# LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

PES Environmental, Inc. 1682 Novato Boulevard, Suite 100 Novato, CA 94947 Attn: Will Mast Date: 4/21/99 Date Received: 4/13/99 Project: 167.0201.004 PO #: Sampled By: Client

# **Certified Analytical Report**

#### Water Sample Analysis:

Sample ID	TW-6			TW-7			MW-1				
Sample Date	4/13/99	13/99			4/13/99			4/13/99			
Sample Time	14:15			14:21			14:28	_			
Lab #	G9211			G9212			G9213				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Results in µg/Liter:											
Analysis Date	4/16/99			4/16/99			4/16/99				
TPH-Gas	ND	1.0	50	54,000	100	5000	29,000	100	5000	50	8015M
MTBE	22	1.0	5.0	1,200	100	500	520	100	500	5.0	8020
Benzene	0.70	-1.0	0.50	4,500	100	50	1,500	100	50	0.50	8020
Toluene	ND	1.0	0.50	1,800	100	50	500	100	50	0.50	8020
Ethyl Benzene	ND	1.0	0.50	180	100	50	ND	100	50	0.50	8020
Xylenes (total)	0.62	1.0	0.50	8,200	100	50	4,000	100	50	0.50	8020

DF=Dilution Factor ND= None Detected above DLR

PQL=Practical Quantitation Limit DLR

DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

**Environmental Analysis Since 1983** 

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

**PES Environmental, Inc.** 1682 Novato Boulevard, Suite 100 Novato, CA 94947 Attn: Will Mast

Date: 4/21/99 Date Received: 4/13/99 Project: 167.0201.004 PO #: Sampled By: Client

# **Certified Analytical Report**

Water Sample Anal	lysis:					<u> </u>	·			T	
Sample ID	TW-2			MW-2							
Sample Date	4/13/99			4/13/99							
Sample Time	14:34			14:42							
Lab #	G9214			G9215							
	Result	DF	DLR	Result	DF	DLR				PQL	Method
Results in µg/Liter:								·			
Analysis Date	4/17/99			4/17-4/19/99	9						
TPH-Gas	ND	1.0	50	ND	1.0	50				50	8015M
MTBE	ND	1.0	5.0	3,800	100	500				5.0	8020
Renzene	ND	1.0	0.50	0.76	1.0	0.50				0.50	8020
Toluene	ND	1.0	0.50	ND	1.0	0.50				0.50	8020
Ethyl Banzane	ND	1.0	0.50	ND	1.0	0.50				0.50	8020
Edityi Denzene		1.0	0.50	ND	1.0	0.50				0.50	8020
[Ayienes (total)			1				The state of the state		D-Datastia	n Reno	rtina Limit

PQL=Practical Quantitation Limit DLR=Detection Rep ND= None Detected above DLR ng DF=Dilution Factor

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #I-2346)

Michelle L. Anderson, Lab Director

Environmental Analysis Since 1983

#### 525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

#### QUALITY CONTROL RESULTS SUMMARY

#### METHOD: Gas Chromatography

QC Batch #: GBG4990416

Matrix: Water Units: µg/L Date Analyzed: 04/16/99 Quality Control Sample: Blank Spike

PARAMETER	Method #	MB μg/L	SA μg/L	SR μg/L	SP µg/L	SP % R	SPD µg/L	SPD %R	RPD	QC RPD	LIMITS %R
Benzene	8020	<0.50	40	ND	40	99	40	101	1.6	25	83-108
Toluene	8020	<0.50	40	ND	39	98	45	114	14.7	25	68-116
Ethyl Benzene	8020	<0.50	40	ND	40	99	45	112	11.6	25	88-115
Xylenes	8020	<0.50	120	ND	118	98	125	104	6	25	84-109
Gasoline	8015	<50.0	500	ND	593	119	523	105	12.6	25	73-129

Note: LCS and LCSD results reported for the following Parameters: All

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

NC: Not Calculated

#### 525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

#### QUALITY CONTROL RESULTS SUMMARY

#### METHOD: Gas Chromatography

QC Batch #: GBG4990419 Matrix: Water

Units: µg/L

Date Analyzed: 04/19/99 Quality Control Sample: Blank Spike

PARAMETER	Method #	MB	SA	SR	SP	SP	SPD	SPD	RPD	QC	LIMITS
		μg/L	µg/L	µg/L	μg/L	%R	μg/L	%R		RPD	%R
Benzene	8020	<0.50	40	ND	- 38	96	40	100	4.2	25	83-108
Toluene	8020	<0.50	40	ND	39	97	39	98	1.1	25	65-112
Ethyl Benzene	8020	<0.50	40	ND	38	95	40	99	3.8	25	83-110
Xylenes	8020	<0.50	120	ND	116	96	120	100	4	25	84-109
Gasoline	8015	<50.0	500	ND	526	105	539	108	2.6	25	73-129

Note: LCS and LCSD results reported for the following Parameters: All

**Definition of Terms:** 

na: Not Analyzed in QC batch

MB: Method Blank

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

NC: Not Calculated

PES ENVIRONMENTAL, Inc. Engineering & Environmental Service	es CHAIN OF CUSTODY RECORD	1682 NOVATO BOULEVARD, SUITE 100 NOVATO, CALIFORNIA 94947 (415) 899-1600 FAX (415) 899-1601
	SAMPLERS Chris Dalance	ANALYSIS REQUESTED
100 NUMBER 167. 02111. 0114		
NUMERICA COA COLILION		
NAME / ECCATION: COLA COLA MAC		31E
PROJECT MANAGER: WIN / C.S.U		
DATE	MATRIX & PRESERV.	
SAMPLE NUMBER /		583583
YR MO DY TIME		
90041377777		
$ 4 9 0 4 1 3 \mathbf{T} 4 a  T w-7$	╽┝╍┽╍╏╶╢╎╎╎╎╷┼╌┾╌┽╼┽╍╎╴╎╌┊╣╎╍╎┅╎╴┨╶╎╴┤╶┽╍┿╺┽╌┨╍╄╍╎╴┥╸	GP2/2
9904131428MW-11		GP2/3
990413143476-2		G9214
990413144214-2		NR GARE
┟╶┼╶┼╼╄╼┾╍┾╍┾╼┿╼┿╍	┟╺╪╼┨╌╎╌╎╶╎╶╎╴╎╌┨╼┾╼┼╼╎┄╎╌┾┅┦╴╏╶╏╶╢╌┥╼┼╍┼┅┞╼┿╼┫╼┝┅╏╶╢╶╢	
	╷╞ <del>╺╄╺┨╍╎╶╎╞╶╎╶╿┲╞┉┆╍╎╶┥╸╎╶╎╞╶┠╺╄╍┿╍┼╺┥╸┫┉╎╸╏╶╿╶</del> ┨╴	┠╌╋╾╇╾┽┉┼┅╄╌╬┄╎┈╎╴╎╴╎╴╎╴┟╍┥╾┽┅┦╴┦
<u> </u>	┊╴ <del>┋╍╎╍╎╴╡╶╎╶╎╺┥╼┨╍╎╶┊╸┊╍╎╶╎╶╎╶╎╶╏╶╻╸╸</del> ╎┈ <del>┥╸╎┈╡╸╎╶╏╶╎╶</del> ╏╶	

NOTE	CHAIN OF CUSTODY RECORD							
Standar JA	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	4 1399, 5-41,					
	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE TIME					
	RELINQUISHED BY: (Sighature)	RECEIVED BY: (Signature)	DATE TIME					
	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE TIME					
	DISPATCHED BY: (Signature) DATE	TIME RECEIVED FOR LAB BY: (Signature)	DATE TIME					
	METHOD OF SHIPMENT:							