# APPENDIX H PHASE I ENVIRONMENTAL SITE ASSESSMENT

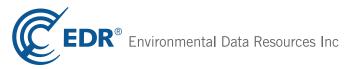
Antioch Annex Area 2B 2200 East 18th Street

Antioch, CA 94509

Inquiry Number: 3346200.2s

June 18, 2012

# The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road Milford, CT 06461 Toll Free: 800.352.0050 www.edrnet.com

#### **TABLE OF CONTENTS**

SECTION	PAGE
Executive Summary	ES1
Overview Map.	<b>2</b>
Detail Map.	<b> 3</b>
Map Findings Summary	4
Map Findings	8
Orphan Summary	
Government Records Searched/Data Currency Tracking	GR-1
GEOCHECK ADDENDUM	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map.	A-5
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-9
Physical Setting Source Records Searched	A-21

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

#### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2012 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### **ADDRESS**

2200 EAST 18TH STREET ANTIOCH, CA 94509

#### **COORDINATES**

Latitude (North): 38.0060000 - 38° 0' 21.60" Longitude (West): 121.7743000 - 121° 46' 27.48"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 607609.1 UTM Y (Meters): 4206984.0

Elevation: 46 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-A7 ANTIOCH NORTH, CA

Most Recent Revision: 1978

South Map: 37121-H7 ANTIOCH SOUTH, CA

Most Recent Revision: 1980

#### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 2009, 2010 Source: USDA

#### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
HOLY CROSS CEMETERY 2200 E 18TH ST ANTIOCH, CA 94509	NPDES HIST UST CONTRA COSTA CO. SITE LIST	N/A

## **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

#### STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens
Federal Delisted NPL site li	st
Delisted NPL	National Priority List Deletions
Federal CERCLIS list	
	Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY	Federal Facility Site Information listing
Federal RCRA generators la	ist
<del>-</del>	
	RCRA - Large Quantity Generators RCRA - Conditionally Exempt Small Quantity Generator
NONA-0L0Q0	- NOVA - Conditionally Exempt Small Quantity Generator
Federal institutional contro	ls / engineering controls registries
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	_ Sites with Institutional Controls
Federal ERNS list	
ERNS	Emergency Response Notification System
State- and tribal - equivaler	nt NPL
RESPONSE	_ State Response Sites
State and tribal landfill and	or solid waste disposal site lists
SWF/LF	_ Solid Waste Information System
State and tribal leaking stor	rage tank lists
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
State and tribal registered s	storage tank lists
INDIAN UST	Underground Storage Tanks on Indian Land
	Underground Storage Tank Listing

#### State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

#### Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9...... Torres Martinez Reservation Illegal Dump Site Locations

HAULERS ...... Registered Waste Tire Haulers Listing

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

#### Local Lists of Hazardous waste / Contaminated Sites

SCH......School Property Evaluation Program

CDL..... Clandestine Drug Labs

US HIST CDL..... National Clandestine Laboratory Register

#### Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS..... Land Use Control Information System

LIENS...... Environmental Liens Listing DEED...... Deed Restriction Listing

#### Records of Emergency Release Reports

HMIRS...... Hazardous Materials Information Reporting System CHMIRS..... California Hazardous Material Incident Report System

LDS...... Land Disposal Sites Listing MCS...... Military Cleanup Sites Listing

#### Other Ascertainable Records

CONSENT..... Superfund (CERCLA) Consent Decrees

TRIS...... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

FTTS\_\_\_\_\_FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System

FINDS\_\_\_\_\_\_Facility Index System/Facility Registry System RAATS\_\_\_\_\_\_RCRA Administrative Action Tracking System

CA BOND EXP. PLAN\_\_\_\_\_\_ Bond Expenditure Plan WDS\_\_\_\_\_\_ Waste Discharge System

UIC Listing

Notify 65..... Proposition 65 Records

DRYCLEANERS..... Cleaner Facilities

WIP..... Well Investigation Program Case List

ENF...... Enforcement Action Listing HAZNET..... Facility and Manifest Data EMI..... Emissions Inventory Data

INDIAN RESERV...... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

PCB TRANSFORMER...... PCB Transformer Registration Database

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

EPA WATCH LIST..... EPA WATCH LIST

FINANCIAL ASSURANCE.... Financial Assurance Information Listing MWMP...... Medical Waste Management Program Listing

#### **EDR PROPRIETARY RECORDS**

#### **EDR Proprietary Records**

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

#### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

#### STANDARD ENVIRONMENTAL RECORDS

#### Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/28/2011 has revealed that there are 2 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GAYLORD CONTAINER CORPORATION	2301 WILBUR AVENUE	NNW 1/8 - 1/4 (0.155 mi.)	H33	93
CONTRA COSTA POWER PLANT	3201 WILBUR AVENUE	NE 1/4 - 1/2 (0.494 mi.)	M54	166

#### Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 08/19/2011 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONTRA COSTA POWER PLANT	3201 WILBUR AVENUE	NE 1/4 - 1/2 (0.494 mi.)	M54	166

#### Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONTRA COSTA POWER PLANT	3201 WILBUR AVENUE	NE 1/4 - 1/2 (0.494 mi.)	M54	166

#### Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/15/2012 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOUISIANA PACIFIC CORP SAN JOA	EAST WILBUR AVE	NNE 0 - 1/8 (0.115 mi.)	21	58
GAYLORD CONTAINER CORPORATION	2301 WILBUR AVENUE	NNW 1/8 - 1/4 (0.155 mi.)	H33	93

#### State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 05/07/2012 has revealed that there are 7 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	<b>Direction / Distance</b>	Map ID	Page
ALMOND ORCHARD Status: Certified	2101 E. 18TH STREET	SW 0 - 1/8 (0.013 mi.)	6	13
SOCCER FIELDS Status: Certified / Operation & Maintenance	1030 APOLLO CT se	WNW 1/2 - 1 (0.501 mi.)	55	177
OAKLEY ROAD METERING SITE Status: Refer: RWQCB	OAKLEY RD. & PHILLIPS L	SE 1/2 - 1 (0.727 mi.)	56	187
Lower Elevation	Address	Direction / Distance	Map ID	Page
INDUSTRIAL LOT WITH RAILROAD S Status: Certified	2600 WILBUR AVENUE	NNE 0 - 1/8 (0.090 mi.)	D14	24
<b>GAYLORD CONTAINER CORPORATION</b> -Status: Active	2603 WILBUR AVE	NNE 0 - 1/8 (0.097 mi.)	D18	37
GAYLORD CONTAINER CORPORATION Status: Certified	2301 WILBUR AVE	NNW 1/8 - 1/4 (0.155 mi.)	H31	65
CONTRA COSTA POWER PLANT Status: Refer: Other Agency Status: Active	3201 WILBUR AVENUE	NE 1/4 - 1/2 (0.494 mi.)	M53	148

Status: Active

#### State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 05/09/2012 has revealed that there are 7 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANTIOCH SVC CTR Status: Completed - Case Closed	2111 HILLCREST AVE	WSW 1/4 - 1/2 (0.421 mi.)	L50	138
PG&E ANTIOCH SERVICE CENTER	2111 HILLCREST AVE	WSW 1/4 - 1/2 (0.421 mi.)	L51	144
Lower Elevation	Address	Direction / Distance	Map ID	Page
LAURITZEN YACHT HARBOR ANTIOCH PAVING Status: Completed - Case Closed	RTE 1 2540 WILBUR AVE	0 - 1/8 (0.000 mi.) NNE 0 - 1/8 (0.090 mi.)	A3 D15	11 28
GUMARO'S AUTO REPAIR Status: Open - Remediation	1801 HILLCREST AVE	W 1/4 - 1/2 (0.315 mi.)	K46	124
BEACON HILLCREST PECKHAM PROPERTY Status: Completed - Case Closed	1801 HILLCREST AVENUE 3215 18TH ST E	W 1/4 - 1/2 (0.315 mi.) E 1/4 - 1/2 (0.465 mi.)	K47 <b>52</b>	134 <b>146</b>

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 05/09/2012 has revealed that there are 6 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GWF POWER PLANT - ANTIOCH Facility Status: Open - Verification Monitor	1900 WILBUR AVENUE ring	NW 1/4 - 1/2 (0.279 mi.)	I41	112
GWF POWER PLANT IMPERIAL WEST CHEM CO	1900 WILBER AVE W 1701 WILBUR AVE	NW 1/4 - 1/2 (0.279 mi.) NW 1/4 - 1/2 (0.295 mi.)	142 <b>J43</b>	113 <b>113</b>
Lower Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC GAS & ELECTRIC CO GAYLORD CONTAINER CORPORATION- Facility Status: Open - Remediation	999 3RD ST 2603 WILBUR AVE	NNE 0 - 1/8 (0.097 mi.) NNE 0 - 1/8 (0.097 mi.)	D17 D18	32 37
KNA CALIFORNIA INC Facility Status: Open - Remediation	2151 WILBUR AVE	NNW 1/4 - 1/2 (0.261 mi.)	39	103

#### State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 05/09/2012 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
REDDING PETROLEUM INC	2800 E 18TH ST	E 1/8 - 1/4 (0.155 mi.)	G29	63

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WAYNE E SWISHER CEMENT CONTRAC	2620 18TH ST E	ESE 0 - 1/8 (0.037 mi.)	B8	17

#### State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 05/07/2012 has revealed that there are 4 VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALMOND ORCHARD	2101 E. 18TH STREET	SW 0 - 1/8 (0.013 mi.)	6	13
Lower Elevation	Address	Direction / Distance	Map ID	Page
INDUSTRIAL LOT WITH RAILROAD S GAYLORD CONTAINER CORPORATION-	2600 WILBUR AVENUE 2603 WILBUR AVE	NNE 0 - 1/8 (0.090 mi.) NNE 0 - 1/8 (0.097 mi.)	D14 D18	24 37
GAYLORD CONTAINER CORPORATION	2301 WILBUR AVE	NNW 1/8 - 1/4 (0.155 mi.)	H31	65

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are

2 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KNA CALIFORNIA INC	2151 WILBUR AVE	NNW 1/4 - 1/2 (0.261 mi.)	39	103
CONTRA COSTA POWER PLT ANTIOCH	PO BOX 249	NW 1/4 - 1/2 (0.335 mi.)	49	136

#### Local Lists of Hazardous waste / Contaminated Sites

Toxic Pits: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there are 2 Toxic Pits sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IMPERIAL WEST, ANTIOCH PLANT Closure Date: 01/16/92	1701 WILBUR AVENUE	NW 1/4 - 1/2 (0.295 mi.)	J44	123
PG&E, CONTRA COSTA POWER PLANT Closure Date: 12/05/88	1456 WILBUR AVENUE	NW 1/4 - 1/2 (0.315 mi.)	48	134

#### Local Lists of Registered Storage Tanks

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 6 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RHUDDAN BALNCHETT	2800 E 18TH ST	E 1/8 - 1/4 (0.155 mi.)	G30	63
HOLY CROSS CEMETERY	2200 E 018TH ST	S 1/8 - 1/4 (0.160 mi.)	34	100
Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLIAM G MCCULLOUGH CO	2625 E 18TH ST	ESE 0 - 1/8 (0.040 mi.)	B10	18
WAYNE E SWISHER CEMENT CONTRAC	2620 E 18TH ST	ESE 0 - 1/8 (0.040 mi.)	B11	21
ANTIOCH PAVING CO. YARD	CRN WILBUR & VIERA AVE	N 0 - 1/8 (0.113 mi.)	F20	56
FORESTAR USA REAL ESTATE GROUP	2301 WILBUR AVE	NNW 1/8 - 1/4 (0.155 mi.)	H32	91

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WILLIAM G. MCCULLOUGH CO.	VICTORY HIWAY & WILLOW	0 - 1/8 (0.000 mi.)	2	9
Lower Elevation	Address	Direction / Distance	Map ID	Page
YARD	CORNER VIERA & WILBUR A	N 0 - 1/8 (0.121 mi.)	F23	59

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 7 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RHUDDAN BALNCHETT	2800 E 18TH ST	E 1/8 - 1/4 (0.155 mi.)	G30	63
HOLY CROSS CEMETERY	2200 E 018TH ST	S 1/8 - 1/4 (0.160 mi.)	34	100
Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLIAM G MCCULLOUGH CO	2625 E 18TH ST	ESE 0 - 1/8 (0.040 mi.)	B10	18
WAYNE E SWISHER CEMENT CONTRAC	2620 E 18TH ST	ESE 0 - 1/8 (0.040 mi.)	B11	21
PACIFIC GAS & ELECTRIC CO	999 3RD ST	NNE 0 - 1/8 (0.097 mi.)	D17	32
ANTIOCH PAVING CO. YARD	CRN WILBUR & VIERA AVE	N 0 - 1/8 (0.113 mi.)	F20	56
FORESTAR USA REAL ESTATE GROUP	2301 WILBUR AVE	NNW 1/8 - 1/4 (0.155 mi.)	H32	91

#### Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/15/2012 has revealed that there are 2 RCRA-NonGen sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CLYDE PRICE DBA CJ PRICE TRUCK	2800 E 18TH ST	E 1/8 - 1/4 (0.155 mi.)	G28	62
Lower Elevation	Address	Direction / Distance	Map ID	Page
JOSE AGUIAR REIS	RT1 BOX 447-B	0 - 1/8 (0.000 mi.)	A4	11

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 04/02/2012 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KNA CALIFORNIA INC	2151 WILBUR AVE	NNW 1/4 - 1/2 (0.261 mi.)	39	103

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 8 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IMPERIAL WEST CHEM CO	1701 WILBUR AVE	NW 1/4 - 1/2 (0.295 mi.)	J43	113
QUIK STOP MARKET NO. 78	1779 WILBUR	NW 1/4 - 1/2 (0.295 mi.)	J45	124
ANTIOCH SVC CTR	2111 HILLCREST AVE	WSW 1/4 - 1/2 (0.421 mi.)	L50	138
Lower Elevation	Address	<b>Direction / Distance</b>	Map ID	Page
LAURITZEN YACHT HARBOR	RTE 1	0 - 1/8 (0.000 mi.)	A3	11
ANTIOCH PAVING	2540 WILBUR AVE	NNE 0 - 1/8 (0.090 mi.)	D15	28
MILITARY FAMILY HOUSING	2300 WILBUR	NNW 1/8 - 1/4 (0.154 mi.)	H27	61
SANTA YNEZ HIGH SCHOOL	2000 WILBUR	NNW 1/4 - 1/2 (0.268 mi.)	140	112
PECKHAM PROPERTY	3215 18TH ST E	E 1/4 - 1/2 (0.465 mi.)	52	146

CONTRA COSTA CO. SITE LIST: Lists includes sites from the Underground Tank Program, Hazardous Waste Generator Program & Business Plan 12185 Program

A review of the CONTRA COSTA CO. SITE LIST list, as provided by EDR, and dated 03/26/2012 has revealed that there are 20 CONTRA COSTA CO. SITE LIST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	<b>Direction / Distance</b>	Map ID	Page
OAK VIEW MEMORIAL PARK	2500 18TH ST E	SE 0 - 1/8 (0.013 mi.)	5	13
EVANGELHO RESIDENCE	1840 18TH ST E	WSW 0 - 1/8 (0.014 mi.)	7	17
CONSTRUCTION DRILLING EQUIPMEN	2750 E 18TH ST	ESE 0 - 1/8 (0.118 mi.)	G22	59
AMERICAN MEDICAL RESPONSE	1791 VINEYARD DR	E 1/8 - 1/4 (0.152 mi.)	G25	61
SUN CHEMICAL	1781 VINEYARD DR #100	E 1/8 - 1/4 (0.152 mi.)	G26	61
REDDING PETROLEUM INC	2800 E 18TH ST	E 1/8 - 1/4 (0.155 mi.)	G29	63
ENVIROCLEAN INC	2820 18TH ST	E 1/8 - 1/4 (0.177 mi.)	35	101
Lower Elevation	Address	Direction / Distance	Map ID	Page
WILLIAM G MCCULLOUGH CO	2625 18TH ST E	ESE 0 - 1/8 (0.038 mi.)	В9	17
WAYNE E SWISHER CEMENT CONTRAC	2620 E 18TH ST	ESE 0 - 1/8 (0.040 mi.)	B11	21
GENESIS MFG CO	2275 WILBUR LN	N 0 - 1/8 (0.055 mi.)	C12	23
JAMES RIVER CORP	2200 WYMORE WAY	NNW 0 - 1/8 (0.069 mi.)	13	24
ANTIOCH PAVING	2540 WILBUR AVE	NNE 0 - 1/8 (0.090 mi.)	D15	28
JBA COMPANIES, INC	2400 WILBUR AVE	N 0 - 1/8 (0.093 mi.)	C16	31
KIEWIT POWER CONSTRUCTORS CO	2925 WILBUR AVE	NE 0 - 1/8 (0.109 mi.)	E19	54
DNG TRANSPORTATION	3000 WILBUR AVE	NE 1/8 - 1/4 (0.139 mi.)	E24	60
MILITARY FAMILY HOUSING	2300 WILBUR	NNW 1/8 - 1/4 (0.154 mi.)	H27	61
GAYLORD CONTAINER CORPORATION	2301 WILBUR AVE	NNW 1/8 - 1/4 (0.155 mi.)	H31	65
IFCO SYSTEMS N A INC	2276 WILBUR AVE	NNW 1/8 - 1/4 (0.177 mi.)	H36	101
CONSTRUCTION ENGINEERING SVCS	1671 VINEYARD DR	ENE 1/8 - 1/4 (0.185 mi.)	37	101
BAY COUNTIES PITCOCK PETROLEUM	3050 WILBUR AVE	NE 1/8 - 1/4 (0.238 mi.)	38	102

HWT: A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

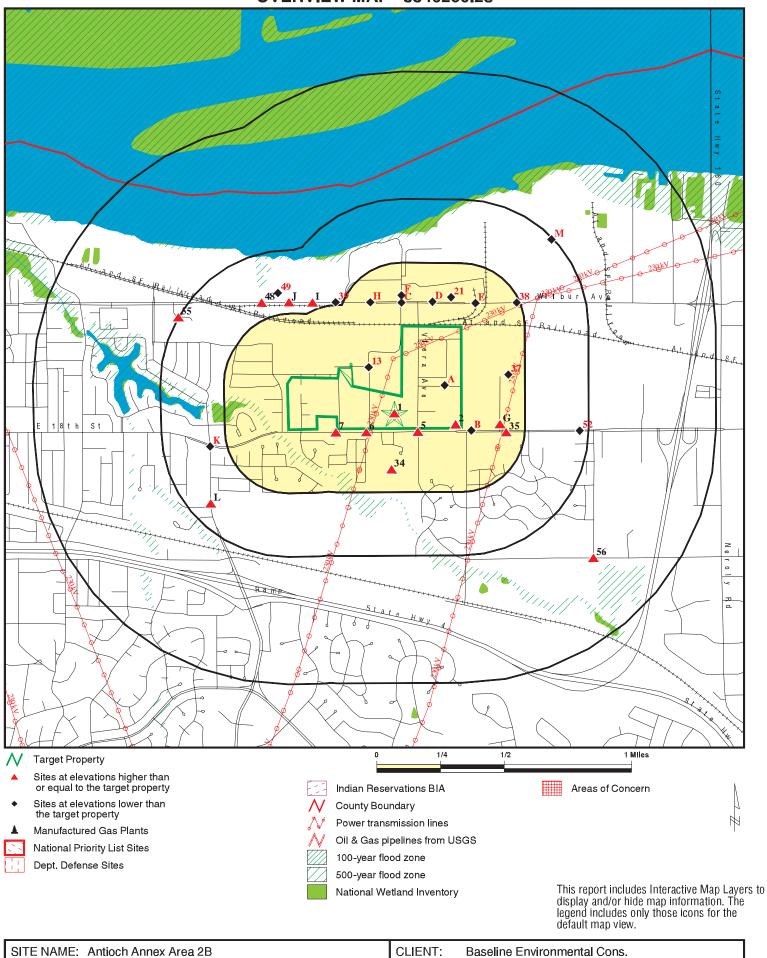
A review of the HWT list, as provided by EDR, and dated 04/11/2012 has revealed that there is 1 HWT site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	<b>Direction / Distance</b>	Map ID	Page
RHUDDAN BALNCHETT	2800 E 18TH ST	E 1/8 - 1/4 (0.155 mi.)	G30	63

Due to poor or inadequate address information, the following sites were not mapped. Count: 40 records.

Site Name	Database(s)
SHERMAN ISL. DEHYDRATOR-ODORAN BRANNON ISLAND COMP. STATION MORENO TRENCING, LTD. UNION 76-TOM'S OILWELL MATERIALS CO. CHEAPER #89 LAURITZEN YACHT HARBOR LLOYD'S HOLIDAY HARBOR CAL TRANS - STEAMBOAT FERRY SERPA JUNCTION COMPRESSOR STAT SHERMAN-WEST COMPANY OUTRIGGER MARINA RIO VISTA SHERMAN ISL. DEHYDRATOR-ODORAN ANTIOCH CONVERTIBLES & AUTO UPHOLS DELTA DIABLO SAN DIST/HHW CHEVRON SS# 96946 PG&E RECLAMATION BOARD #7 & #8 WILCOX 12 RVGU 169 WELL SITE BIG BRANNAN COMPRESSOR STATION CHEVRON - MIDLAND FEE #1 RVGU 236 WELL SITE BBBY BRANNAN COMPRESSOR STATION DK AG LODI 2 COMPRESSOR STATION SITE PG & E SHERMAN ISL DEHYDRATOR STA PG & E JESSE MARKS & SON PG & E SHERMAN ISL. DEHY	Database(s)  SWEEPS UST LUST SAN MATEO LUST SAN MATEO LUST SAN MATEO LUST SAN MATEO HIST UST HIST UST HIST UST HIST UST SL CONTRA COSTA SL CONTRA COSTA SL CONTRA COSTA ML SACRAMENTO
JESSE MARKS & SON	ML SACRAMENTO
PG & E SHERMAN ISL. DEHY PG & E LODI GAS SHERMAN ISLAND MET P G & E - RECLAMATION BOARD #8 ODO PG & E SHERMAN ISL DEHY #2 BAROFALDI FARMING BEAN POT SHERMAN WEST RVGU 162-1 (WELCH 6)WELL SITE P G & E - PUCCI MASTER METER ODORA	ML SACRAMENTO
. July 1	3/10/10/11/10

# **OVERVIEW MAP - 3346200.2s**



ADDRESS: 2200 East 18th Street

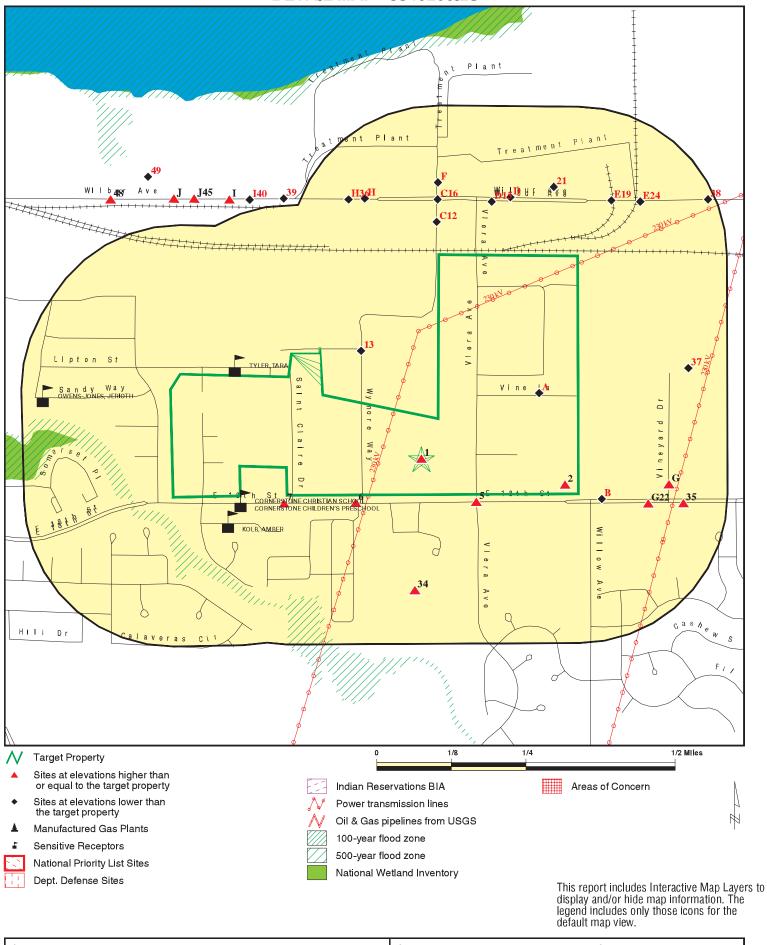
Antioch CA 94509 LAT/LONG: 38.006 / 121.7743

CLIENT: CONTACT: Cheri Page

DATE: June 18, 2012 1:04 pm Copyright © 2012 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

**M**NQUIRY#: 3346200.2s

#### **DETAIL MAP - 3346200.2s**



SITE NAME: Antioch Annex Area 2B ADDRESS: 2200 East 18th Street

Antioch CA 94509 LAT/LONG: 38.006 / 121.7743 CLIENT: CONTACT: Baseline Environmental Cons. Cheri Page

3346200.2s

๗⊌QUIRY#:

DATE: June 18, 2012 1:06 pm

Copyright © 2012 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted	
STANDARD ENVIRONMEN	TAL RECORDS								
Federal NPL site list									
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0	
Federal Delisted NPL sit	te list								
Delisted NPL	1.000		0	0	0	0	NR	0	
Federal CERCLIS list									
CERCLIS FEDERAL FACILITY	0.500 1.000		0 0	0 0	0 0	NR 0	NR NR	0 0	
Federal CERCLIS NFRA	P site List								
CERC-NFRAP	0.500		0	1	1	NR	NR	2	
Federal RCRA CORRACTS facilities list									
CORRACTS	1.000		0	0	1	0	NR	1	
Federal RCRA non-COR	RACTS TSD 1	acilities list							
RCRA-TSDF	0.500		0	0	1	NR	NR	1	
Federal RCRA generator	rs list								
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 1 0	0 1 0	NR NR NR	NR NR NR	NR NR NR	0 2 0	
Federal institutional controls / engineering controls registries									
US ENG CONTROLS US INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0	
Federal ERNS list									
ERNS	TP		NR	NR	NR	NR	NR	0	
State- and tribal - equivalent NPL									
RESPONSE	1.000		0	0	0	0	NR	0	
State- and tribal - equivalent CERCLIS									
ENVIROSTOR	1.000		3	1	1	2	NR	7	
State and tribal landfill and/or solid waste disposal site lists									
SWF/LF	0.500		0	0	0	NR	NR	0	
State and tribal leaking storage tank lists									
LUST SLIC	0.500 0.500		2 2	0 0	5 4	NR NR	NR NR	7 6	

Database	Search Distance	Target	- 1/0	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Dalabase	(Miles)	Property	< 1/8	1/0 - 1/4	1/4 - 1/2	1/2 - 1	<del>&gt; 1</del>	Piolied
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registere	d storage tan	ık lists						
UST AST INDIAN UST FEMA UST	0.250 0.250 0.250 0.250		0 1 0 0	1 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	1 1 0 0
State and tribal voluntary	cleanup site	es						
INDIAN VCP VCP	0.500 0.500		0 3	0 1	0 0	NR NR	NR NR	0 4
ADDITIONAL ENVIRONMEN	TAL RECORDS	3						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9 ODI WMUDS/SWAT SWRCY HAULERS INDIAN ODI	0.500 0.500 0.500 0.500 TP 0.500		0 0 0 0 NR 0	0 0 0 0 NR 0	0 0 2 0 NR 0	NR NR NR NR NR	NR NR NR NR NR	0 0 2 0 0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL HIST Cal-Sites SCH Toxic Pits CDL US HIST CDL	TP 1.000 0.250 1.000 TP TP		NR 0 0 0 NR NR	NR 0 0 0 NR NR	NR 0 NR 2 NR NR	NR 0 NR 0 NR NR	NR NR NR NR NR	0 0 0 2 0
Local Lists of Registered Storage Tanks								
CA FID UST HIST UST SWEEPS UST	0.250 0.250 0.250	1	3 2 4	3 0 3	NR NR NR	NR NR NR	NR NR NR	6 3 7
Local Land Records								
LIENS 2 LUCIS LIENS DEED	TP 0.500 TP 0.500		NR 0 NR 0	NR 0 NR 0	NR 0 NR 0	NR NR NR NR	NR NR NR NR	0 0 0 0
Records of Emergency Release Reports								
HMIRS CHMIRS LDS	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MCS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Reco	ords							
	0.250 TP 1.000 1.000 1.000 0.500 0.250 TP TP TP TP TP TP TP TP TP TP TP TP TP	1	NR 1R000000RRRRRRRRRRRRRRORRRO210000RRRRORORORORORONONO	NR 1 R 0 0 0 0 0 0 R R R R R R R R R R R	N RROOOOORRRRRRRRRRRRORRR15RORRRROORORORRRORORN	$\mathbf{N} \qquad \mathbf{N} \mathbf{R} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \mathbf{N} \\ \mathbf{K} \\ \mathbf{N} \\ \mathbf{K} \\ $	$\mathbf{N} = \mathbf{N} \times $	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants	1.000		0	0	0	0	NR	0

Search

Distance (Miles)

Target Property

< 1/8 1/8 - 1/4

1/4 - 1/2

1/2 - 1

> 1

Total Plotted

NOTES:

Database

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**HOLY CROSS CEMETERY NPDES** U001596226 **Target** 2200 E 18TH ST **HIST UST** N/A

**CONTRA COSTA CO. SITE LIST Property** ANTIOCH, CA 94509

NPDES:

Npdes Number: CAS000002 Facility Status: Terminated Actual:

Agency Id: 46 ft.

Region: Not reported 266712 Regulatory Measure Id: Order No: 2009-0009-DWQ

Regulatory Measure Type: Enrollee Place Id: Not reported WDID: 5S07C338117 Construction Program Type: Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 11/30/2005

Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: 06/22/2010

Discharge Name: Diocese of Oakland Catholic Cemeteries

Discharge Address: PO Box 488 Discharge City: Lafayette Discharge State: California Discharge Zip: 94549

HIST UST:

Region: STATE Facility ID: 00000059282 Facility Type: Other Other Type: **CEMETERY** 

Total Tanks: 0001

SHIRLEY GOODNER, Contact Name:

Telephone: 4157570658

Owner Name: ROMAN CATHOLIC BISHOP OF OAKLA

Owner Address: 1965 RELIEZ VALLEY ROAD Owner City, St, Zip: LAFAYETTE, CA 94549

Tank Num: 001

Container Num: UL H710677 Year Installed: 1979 Tank Capacity: 00000550 Tank Used for: **PRODUCT** Type of Fuel: **REGULAR** Tank Construction: Not reported Leak Detection: Stock Inventor

CONTRA COSTA CO. SITE LIST:

Region: **CONTRA COSTA** 

Facility ID: 759282 Tier: Not reported Program Status: HWG, Hmmp

Generator Fee Item: No

Inactive Date: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

2 WILLIAM G. MCCULLOUGH CO. **VICTORY HIWAY & WILLOW AVE** 

< 1/8 ANTIOCH, CA 94509

1 ft.

HIST UST:

Relative: Higher

Actual:

46 ft.

Region: STATE Facility ID: 00000003416 Facility Type: Other Other Type: Not reported Total Tanks: 0010

Contact Name: Not reported 4157571394 Telephone:

WILLIAM G. MCCULLOUGH CO., A C Owner Name: VICTORY HIWAY AT WILLOW AVE. Owner Address:

Owner City, St, Zip: ANTIOCH, CA 94509

Tank Num: 001 Container Num: 01 1975 Year Installed: Tank Capacity: 0008000 **PRODUCT** Tank Used for: Type of Fuel: UNLEADED Tank Construction: 1/4 inches Leak Detection: Stock Inventor

002 Tank Num: Container Num: 02 Year Installed: 1975 Tank Capacity: 0008000 **PRODUCT** Tank Used for: Type of Fuel: DIESEL Tank Construction: 1/4 inches Leak Detection: Stock Inventor

Tank Num: 003 Container Num: 03 Year Installed: 1975 Tank Capacity: 0008000 Tank Used for: **PRODUCT** Type of Fuel: DIESEL Tank Construction: 1/4 inches Leak Detection: Stock Inventor

Tank Num: 004 Container Num: 04 1979 Year Installed: 00010000 Tank Capacity: Tank Used for: **PRODUCT** Type of Fuel: DIESEL 1/4 inches Tank Construction: Leak Detection: Stock Inventor

Tank Num: 005 Container Num: 05 Year Installed: 1979 00010000 Tank Capacity: Tank Used for: **PRODUCT** Type of Fuel: DIESEL

HIST UST

U001596252

N/A

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### WILLIAM G. MCCULLOUGH CO. (Continued)

Tank Construction: 1/4 inches Leak Detection: Stock Inventor

Tank Num: 006 Container Num: 06 Year Installed: 1975 Tank Capacity: 00003000 Tank Used for: WASTE Type of Fuel: WASTE OIL Tank Construction: 3/16 inches Leak Detection: Stock Inventor

Tank Num: 007 Container Num: 07 1976 Year Installed: 00000000 Tank Capacity: Tank Used for: WASTE Not reported Type of Fuel: Tank Construction: Not reported

Leak Detection: None

Tank Num: 800 Container Num: 1

Year Installed: Not reported 00001100 Tank Capacity: Tank Used for: WASTE Type of Fuel: Not reported Tank Construction: Not reported

Visual, Stock Inventor Leak Detection:

Tank Num: 009 Container Num:

Year Installed: Not reported Tank Capacity: 00000500 Tank Used for: Not reported Not reported Type of Fuel: Tank Construction: Not reported Leak Detection: None

010 Tank Num: Container Num: 3

Year Installed: Not reported Tank Capacity: 00001500 WASTE Tank Used for: Not reported Type of Fuel: Tank Construction: Not reported Leak Detection: Visual

U001596252

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**A3 LAURITZEN YACHT HARBOR** HIST CORTESE S101294049 **LUST** N/A

RTE 1

< 1/8 ANTIOCH, CA 94509

1 ft.

Site 1 of 2 in cluster A

CORTESE: Relative:

CORTESE Lower Region:

Facility County Code:

Actual: LTNKA Reg By: 41 ft. Reg Id: 070054

> CORTESE Region:

Facility County Code: **LTNKA** Reg By: Reg Id: 070067

LUST REG 5:

Region:

Status: Case Closed Case Number: 070054 Soil only Case Type: Substance: **GASOLINE** PMV Staff Initials: Lead Agency: Regional LUST Program: MTBE Code: N/A

Region:

Status: Case Closed Case Number: 070067 Soil only Case Type: Substance: GASOLINE Staff Initials: PMV Lead Agency: Regional LUST Program: MTBE Code: N/A

Α4 **JOSE AGUIAR REIS** RCRA-NonGen 1000195191 RT1 BOX 447-B FINDS CAD981982671

< 1/8 ANTIOCH, CA 94509

1 ft.

Actual:

41 ft.

Site 2 of 2 in cluster A

RCRA-NonGen: Relative:

Date form received by agency: 04/23/1987 Lower

Facility name: JOSE AGUIAR REIS Facility address: RT1 BOX 447-B ANTIOCH, CA 94509

EPA ID: CAD981982671

**ENVIRONMENTAL MANAGER** Contact:

Contact address: RT1 BOX 447-B

ANTIOCH, CA 94509

Contact country: US

Contact telephone: (415) 778-7347 Contact email: Not reported

EPA Region: 09

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Direction Distance Elevation

vation Site Database(s) EPA ID Number

#### JOSE AGUIAR REIS (Continued)

1000195191

**EDR ID Number** 

Owner/Operator Summary:

Owner/operator name: REIS ALFREDO CO
Owner/operator address: NOT REQUIRED

NOT REQUIRED, ME 99999

Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED Owner/operator address: NOT REQUIRED

NOT REQUIRED, ME 99999

Owner/operator country:

Owner/operator telephone:

Legal status:

Owner/Operator Type:

Owner/Op start date:

Owner/Op end date:

Not reported

Not reported

Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: Nο Transporter of hazardous waste: Yes Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110005995094

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

5 **OAK VIEW MEMORIAL PARK** CONTRA COSTA CO. SITE LIST S102259790

2500 18TH ST E ANTIOCH, CA 94509 < 1/8

0.013 mi. 66 ft.

SE

CONTRA COSTA CO. SITE LIST: Relative:

CONTRA COSTA Higher Region:

Facility ID: 770172 Actual: Tier: Not reported 52 ft.

Program Status: UST Generator Fee Item: No Inactive Date: 02/02/1987

**ALMOND ORCHARD VCP** S106152505 2101 E. 18TH STREET **ENVIROSTOR** SW N/A

< 1/8 ANTIOCH, CA 94509

0.013 mi. 70 ft.

VCP: Relative:

07010011 Facility ID: Higher

Voluntary Cleanup Site Type: Actual: Site Type Detail: Voluntary Cleanup 49 ft. NONE SPECIFIED Site Mgmt. Req.:

> 8.78 Acres: National Priorities List: NO Cleanup Oversight Agencies: SMBRP Lead Agency: **SMBRP**

Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program

Project Manager: Janet Naito Supervisor: Barbara Cook Division Branch: Cleanup Berkeley

201530 Site Code: Assembly: 11 07 Senate:

Designation of Single Agency Special Programs Code:

Status: Certified Status Date: 06/13/2005 NO Restricted Use:

Responsible Party Funding: Lat/Long: 38.00599 / -121.7767

APN: 051-100-022-6, 051-100-023-4, 051100022

Past Use: AGRICULTURAL - ORCHARD Potential COC: NONE SPECIFIED, 31000

Confirmed COC: 31000 Potential Description: SOIL

ALMOND ORCHARD Alias Name: Alias Type: Alternate Name Alias Name: 051-100-022-6

Alias Type: APN

Alias Name: 051-100-023-4 Alias Type: APN Alias Name: 051100022 Alias Type: APN

Alias Name: 110033614131 Alias Type: EPA (FRS#) 201530 Alias Name:

Alias Type: Project Code (Site Code)

Alias Name: 07010011 N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **ALMOND ORCHARD (Continued)**

S106152505

**EDR ID Number** 

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/13/2005

Comments: Site certified under the Site Designation process.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 06/08/2005 Comments: NOE filed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: Held site conference pursuant to H&SC Section 25398.2.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 06/13/2005

Comments: Soil samples were collected in January and August 2004 which found

that all metals, dioxins/furans, PAHs, pesticides and herbicides were either not detected or were detected at concentrations below residential screening goals. The risk evaluation determined that risks from chemicals in soil did not exceed the de minimis risk level under a single-family residential use scenario. Therefore, DTSC

determined that no further action was required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/01/2002

Comments: DTSC reviewed Phase I Environmental Assessment as part of its review

of the PEA Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/18/2005

Direction
Distance

Elevation Site Database(s) EPA ID Number

#### **ALMOND ORCHARD (Continued)**

S106152505

**EDR ID Number** 

Comments: Based upon the results of the PEA, no further action is required for

the northern and southern Almond Orchard.

Future Area Name: Not reported Future Sub Area Name: Not reported Not reported Future Document Type: Not reported Future Due Date: Not reported Schedule Area Name: Schedule Sub Area Name: Not reported Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

**ENVIROSTOR:** 

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup

Acres: 8.78 NPL: NO Regulatory Agencies: **SMBRP SMBRP** Lead Agency: Janet Naito Program Manager: Supervisor: Barbara Cook Division Branch: Cleanup Berkeley Facility ID: 07010011

Facility ID: 070100
Site Code: 201530
Assembly: 11
Senate: 07

Special Program: Designation of Single Agency

Status: Certified Status Date: 06/13/2005

Restricted Use: NO

Site Mgmt. Req.: NONE SPECIFIED Funding: Responsible Party Latitude: 38.00599 Longitude: -121.7767

APN: 051-100-022-6, 051-100-023-4, 051100022

Past Use: AGRICULTURAL - ORCHARD Potential COC: NONE SPECIFIED,31000

Confirmed COC: 31000
Potential Description: SOIL

Alias Name: ALMOND ORCHARD
Alias Type: Alternate Name
Alias Name: 051-100-022-6

Alias Type: APN

Alias Name: 051-100-023-4

Alias Type: APN
Alias Name: 051100022
Alias Type: APN

Alias Name: 110033614131 Alias Type: EPA (FRS #) Alias Name: 201530

Alias Type: Project Code (Site Code)

Alias Name: 07010011

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE

Direction Distance

Elevation Site Database(s) EPA ID Number

**ALMOND ORCHARD (Continued)** 

S106152505

**EDR ID Number** 

Completed Sub Area Name: Not reported Completed Document Type: Certification O6/13/2005

Comments: Site certified under the Site Designation process.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 06/08/2005 Comments: NOE filed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: Held site conference pursuant to H&SC Section 25398.2.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A 03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 06/13/2005

Comments: Soil samples were collected in January and August 2004 which found

that all metals, dioxins/furans, PAHs, pesticides and herbicides were either not detected or were detected at concentrations below residential screening goals. The risk evaluation determined that risks from chemicals in soil did not exceed the de minimis risk level under a single-family residential use scenario. Therefore, DTSC

determined that no further action was required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/01/2002

Comments: DTSC reviewed Phase I Environmental Assessment as part of its review

of the PEA Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/18/2005

Comments: Based upon the results of the PEA, no further action is required for

the northern and southern Almond Orchard.

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

ALMOND ORCHARD (Continued) S106152505

Future Area Name: Not reported Not reported Future Sub Area Name: Future Document Type: Not reported Future Due Date: Not reported Schedule Area Name: Not reported Schedule Sub Area Name: Not reported Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

EVANGELHO RESIDENCE CONTRA COSTA CO. SITE LIST S106434264

WSW 1840 18TH ST E < 1/8 ANTIOCH, CA 94509

< 1/8 ANTIC 0.014 mi.

0.014 mi. 76 ft.

Relative: CONTRA COSTA CO. SITE LIST:

Higher Region: CONTRA COSTA

Facility ID: 773335

Actual: Tier: Not reported

53 ft. Program Status: UST

Program Status: UST
Generator Fee Item: No
Inactive Date: 03/22/2004

\_\_\_\_

B8 WAYNE E SWISHER CEMENT CONTRACTOR INC AST \$102259791
ESE 2620 18TH ST E N/A

ESE 2620 18TH ST E < 1/8 ANTIOCH, CA

0.037 mi.

193 ft. Site 1 of 4 in cluster B

Relative: AST:

**Lower** Owner: Not reported

Total Gallons: 2,000

Actual: Certified Unified Program Agencies: Contra Costa

44 ft.

B9 WILLIAM G MCCULLOUGH CO CONTRA COSTA CO. SITE LIST S102259792
ESE 2625 18TH ST E N/A

ESE 2625 18TH ST E < 1/8 ANTIOCH, CA 94509

0.038 mi.

201 ft. Site 2 of 4 in cluster B

Relative: CONTRA COSTA CO. SITE LIST:

Lower Region: CONTRA COSTA

Facility ID: 703416

Actual: Tier: Not reported

44 ft. Program Status: UST, Hmmp, AGT

Generator Fee Item: Yes
Inactive Date: 08/03/2011

N/A

#### MAP FINDINGS

Map ID Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

 B10
 WILLIAM G MCCULLOUGH CO
 CA FID UST
 \$101581030

 ESE
 2625 E 18TH ST
 SWEEPS UST
 N/A

< 1/8 ANTIOCH, CA 94509 HAZNET

0.040 mi.

211 ft. Site 3 of 4 in cluster B

Relative: CA FID UST:

LowerFacility ID:<br/>Regulated By:07001205<br/>UTNKAActual:Regulated ID:<br/>Cortese Code:Not reported44 ft.Cortese Code:Not reported

SIC Code: Not reported 5107571394 Facility Phone: Mail To: Not reported Mailing Address: 2625 E 18TH ST Mailing Address 2: Not reported Mailing City, St, Zip: **ANTIOCH 94531** Contact: Not reported Contact Phone: Not reported DUNs Number: Not reported NPDES Number: Not reported Not reported EPA ID:

SWEEPS UST:

Comments:

Status:

Status: A
Comp Number: 3416
Number: 1

 Board Of Equalization:
 44-002189

 Ref Date:
 02-12-92

 Act Date:
 02-12-92

 Created Date:
 07-22-88

 Tank Status:
 A

Owner Tank Id: 1

Swrcb Tank Id: 07-000-003416-000001

Not reported

Active

 Actv Date:
 02-12-92

 Capacity:
 8000

 Tank Use:
 M.V. FUEL

 Stg:
 P

Content: REG UNLEADED

Number Of Tanks: 6

Status: A
Comp Number: 3416
Number: 1

 Board Of Equalization:
 44-002189

 Ref Date:
 02-12-92

 Act Date:
 02-12-92

 Created Date:
 07-22-88

 Tank Status:
 A

 Owner Tank Id:
 2

Swrcb Tank Id: 07-000-003416-000002

 Actv Date:
 02-12-92

 Capacity:
 8000

 Tank Use:
 M.V. FUEL

 Stg:
 P

 Content:
 DIESEL

Content: DIESEL
Number Of Tanks: Not reported

Direction
Distance
Elevation

ation Site Database(s) EPA ID Number

#### WILLIAM G MCCULLOUGH CO (Continued)

S101581030

**EDR ID Number** 

Status: A
Comp Number: 3416
Number: 1

 Board Of Equalization:
 44-002189

 Ref Date:
 02-12-92

 Act Date:
 02-12-92

 Created Date:
 07-22-88

 Tank Status:
 A

 Owner Tank Id:
 3

Swrcb Tank Id: 07-000-003416-000003

Actv Date: 02-12-92
Capacity: 8000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

 Status:
 A

 Comp Number:
 3416

 Number:
 1

 Board Of Equalization:
 44-002189

 Ref Date:
 02-12-92

 Act Date:
 02-12-92

 Created Date:
 07-22-88

 Tank Status:
 A

Owner Tank Id: 4

Swrcb Tank Id: 07-000-003416-000004 Actv Date: 02-12-92

Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

Status: A
Comp Number: 3416
Number: 1

 Board Of Equalization:
 44-002189

 Ref Date:
 02-12-92

 Act Date:
 02-12-92

 Created Date:
 07-22-88

 Tank Status:
 A

 Owner Tank Id:
 5

Swrcb Tank Id: 07-000-003416-000005

 Actv Date:
 02-12-92

 Capacity:
 10000

 Tank Use:
 M.V. FUEL

 Stg:
 P

 Content:
 DIESEL

 Number Of Tanks:
 Not reported

Status: A
Comp Number: 3416
Number: 1

Board Of Equalization: 44-002189 Ref Date: 02-12-92 Act Date: 02-12-92

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### WILLIAM G MCCULLOUGH CO (Continued)

S101581030

07-22-88 Created Date: Tank Status: Α Owner Tank Id: 6

Swrcb Tank Id: 07-000-003416-000006

Actv Date: 02-12-92 3000 Capacity: Tank Use: OIL Stg: W

WASTE OIL Content: Number Of Tanks: Not reported

HAZNET:

2010 Year:

Gepaid: CAL000117796 Contact: **TODD SCHUETTE** Telephone: 9257571394 Mailing Name: Not reported Mailing Address: PO BOX 2119

Mailing City, St, Zip: ANTIOCH, CA 945312119

Gen County: Not reported TSD EPA ID: CAD980887418 TSD County: Not reported

Waste Category: Oil/water separation sludge

DISCHARGE TO SEWER/POTW OR NPDES(WITH PRIOR STORAGE--WITH OR WITHOUT Disposal Method:

TREATMENT)

Tons: 0.2085 Facility County: Contra Costa

Year: 2010

Gepaid: CAL000117796 Contact: **TODD SCHUETTE** Telephone: 9257571394 Mailing Name: Not reported Mailing Address: PO BOX 2119

Mailing City,St,Zip: ANTIOCH, CA 945312119

Gen County: Not reported TSD EPA ID: CAD980887418 TSD County: Not reported Other organic solids Waste Category:

STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY Disposal Method:

(H010-H129) OR (H131-H135)

Tons: 0.15 Facility County: Contra Costa

2010 Year:

CAL000117796 Gepaid: Contact: **TODD SCHUETTE** Telephone: 9257571394 Mailing Name: Not reported PO BOX 2119 Mailing Address:

Mailing City, St, Zip: ANTIOCH, CA 945312119

Gen County: Not reported TSD EPA ID: CAD980887418 TSD County: Not reported

Waste Category: Waste oil and mixed oil

STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY Disposal Method:

(H010-H129) OR (H131-H135)

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### WILLIAM G MCCULLOUGH CO (Continued)

S101581030

Tons: 0.076 Facility County: Contra Costa

2010 Year:

Gepaid: CAL000117796 Contact: **TODD SCHUETTE** Telephone: 9257571394 Mailing Name: Not reported Mailing Address: PO BOX 2119

Mailing City, St, Zip: ANTIOCH, CA 945312119

Gen County: Not reported TSD EPA ID: CAD980887418 TSD County: Not reported

Waste Category: Unspecified solvent mixture

STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY Disposal Method:

(H010-H129) OR (H131-H135)

0.15 Tons:

Facility County: Contra Costa

2009 Year:

Gepaid: CAL000117796 TODD SCHUETTE Contact: Telephone: 9257571394 Mailing Name: Not reported Mailing Address: PO BOX 2119

Mailing City, St, Zip: ANTIOCH, CA 945312119

Gen County: Contra Costa TSD EPA ID: CAD980887418 TSD County: Alameda

Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)

STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY Disposal Method:

(H010-H129) OR (H131-H135)

Tons: 0.18765 Facility County: Contra Costa

> Click this hyperlink while viewing on your computer to access 14 additional CA\_HAZNET: record(s) in the EDR Site Report.

B11 WAYNE E SWISHER CEMENT CONTRACTOR INC

**ESE** 2620 E 18TH ST

ANTIOCH, CA 94509

0.040 mi.

< 1/8

213 ft. Site 4 of 4 in cluster B

CA FID UST: Relative:

Lower

Facility ID: 07001054 Regulated By: UTNKI

Actual: 44 ft.

Regulated ID: Not reported Cortese Code: Not reported SIC Code: Not reported 4157573660 Facility Phone: Not reported Mail To: Mailing Address: 2620 E 18TH ST Mailing Address 2: Not reported Mailing City, St, Zip: ANTIOCH 94509 Contact: Not reported Contact Phone: Not reported **DUNs Number:** Not reported

S101580933

N/A

CA FID UST

**HAZNET** 

**SWEEPS UST** 

**CONTRA COSTA CO. SITE LIST** 

Direction Distance

Elevation Site Database(s) EPA ID Number

#### WAYNE E SWISHER CEMENT CONTRACTOR INC (Continued)

S101580933

**EDR ID Number** 

NPDES Number: Not reported EPA ID: Not reported Comments: Not reported Status: Not reported Inactive

CONTRA COSTA CO. SITE LIST:

Region: CONTRA COSTA
Facility ID: 770219
Tier: Not reported
Program Status: HWG, Hmmp, AGT

Generator Fee Item: No

Inactive Date: Not reported

SWEEPS UST:

Status: Not reported 70219 Comp Number: Not reported Number: Board Of Equalization: 44-002663 Not reported Ref Date: Act Date: Not reported Not reported Created Date: Tank Status: Not reported Owner Tank Id: Not reported

Swrcb Tank ld: 07-000-070219-000001

Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED

Number Of Tanks: 1

HAZNET:

Year: 2008

Gepaid: CAL000209289

Contact: WAYNE E SWISHER-OWNER

Telephone: 9257573660
Mailing Name: Not reported
Mailing Address: 2620 E 18TH ST

Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa
TSD EPA ID: CAD028409019
TSD County: Los Angeles

Waste Category: Off-specification, aged or surplus organics

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.2805 Facility County: Contra Costa

Year: 2008

Gepaid: CAL000209289

Contact: WAYNE E SWISHER-OWNER

Telephone: 9257573660
Mailing Name: Not reported
Mailing Address: 2620 E 18TH ST

Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

### WAYNE E SWISHER CEMENT CONTRACTOR INC (Continued)

S101580933

TSD EPA ID: CAD028409019
TSD County: Los Angeles

Waste Category: Off-specification, aged or surplus organics

Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE

Tons: 0.033 Facility County: Contra Costa

Year: 2002

Gepaid: CAL000209289

Contact: WAYNE E SWISHER-OWNER

Telephone: 9257573660
Mailing Name: Not reported
Mailing Address: 2620 E 18TH ST

Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa
TSD EPA ID: Not reported
TSD County: Sacramento

Waste Category: Unspecified organic liquid mixture

Disposal Method: H01
Tons: 0.12
Facility County: Not reported

Year: 2001

Gepaid: CAL000209289

Contact: WAYNE E SWISHER-OWNER

Telephone: 9257573660
Mailing Name: Not reported
Mailing Address: 2620 E 18TH ST

Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa
TSD EPA ID: Not reported
TSD County: Sacramento

Waste Category: Unspecified organic liquid mixture

Disposal Method: H01 Tons: 0.22

Facility County: Not reported

C12 GENESIS MFG CO CONTRA COSTA CO. SITE LIST S102259994

North 2275 WILBUR LN < 1/8 ANTIOCH, CA 94509

0.055 mi.

289 ft. Site 1 of 2 in cluster C

Relative: CONTRA COSTA CO. SITE LIST:

Lower Region: CONTRA COSTA

Facility ID: 707785

Actual: Tier: Not reported

35 ft. Program Status: Hmmp

Program Status: Hmmp
Generator Fee Item: No
Inactive Date: 11/29/1994

N/A

Direction Distance

Distance EDR ID Number
Elevation Site EPA ID Number

13 JAMES RIVER CORP CONTRA COSTA CO. SITE LIST S102259999
NNW 2200 WYMORE WAY EMI N/A

< 1/8 ANTIOCH, CA 94509

0.069 mi. 364 ft.

Relative: CONTRA COSTA CO. SITE LIST:

Lower Region: CONTRA COSTA

 Actual:
 Tier:
 Not reported

 40 ft.
 Program Status:
 HWG, Hmmp, AGT

Generator Fee Item: No

Inactive Date: Not reported

Region: CONTRA COSTA

Facility ID: 707598
Tier: Not reported
Program Status: Hmmp
Generator Fee Item: No
Inactive Date: 06/18/1997

EMI:

 Year:
 2002

 County Code:
 7

 Air Basin:
 SF

 Facility ID:
 12079

 Air District Name:
 BA

 SIC Code:
 8734

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

INDUSTRIAL LOT WITH RAILROAD SIDING

VCP S106568193
2600 WILBUR AVENUE

ENVIROSTOR N/A

< 1/8 ANTIOCH, CA 94509

0.090 mi.

D14

NNE

473 ft. Site 1 of 4 in cluster D

Relative: VCP:

Lower Facility ID: 07990014
Site Type: Voluntary Cleanup
Actual: Site Type Detail: Voluntary Cleanup
32 ft. Site Mgmt. Req.: NONE SPECIFIED

Acres: 10.28 National Priorities List: NO

Cleanup Oversight Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY

Lead Agency: SMBRP

Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program

Project Manager: Janet Naito
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley

Site Code: 201534

Direction Distance

Elevation Site Database(s) EPA ID Number

### INDUSTRIAL LOT WITH RAILROAD SIDING (Continued)

S106568193

**EDR ID Number** 

Assembly: 11 Senate: 07

Special Programs Code: Designation of Single Agency

Status: Certified
Status Date: 03/06/2006
Restricted Use: NO

 Funding:
 Responsible Party

 Lat/Long:
 38.01108 / -121.7548

 APN:
 051-032-009-6, 051032009

 Past Use:
 MANUFACTURING - PAPER

Potential COC: 30024, 3002502 Confirmed COC: 30024,3002502

Potential Description: SOIL

Alias Name: INDUSTRIAL LOT #2
Alias Type: Alternate Name

Alias Name: INDUSTRIAL LOT WITH RAILROAD SIDING

 Alias Type:
 Alternate Name

 Alias Name:
 051-032-009-6

 Alias Type:
 APN

 Alias Name:
 051032009

 Alias Type:
 APN

 Alias Name:
 110033615130

Alias Name: 110033615130
Alias Type: EPA (FRS #)
Alias Name: 201534

Alias Type: Project Code (Site Code)

Alias Name: 07990014
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: DTSC designated lead administering agency.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/06/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Direction Distance

Elevation Site Database(s) EPA ID Number

### INDUSTRIAL LOT WITH RAILROAD SIDING (Continued)

S106568193

**EDR ID Number** 

Completed Date: 03/06/2006

Comments: PEA completed and no further action is required. In accordance with

Site Designation requirements, the site is certified.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Public Participation Plan / Community Relations Plan

Completed Date: 10/25/2004

Comments: Public Participation Plan approved for the nine Gaylord Mill and

Non-Mill Properties.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/31/2003

Comments: Report submitted once site entered into Voluntary Cleanup Agreement.

Report reviewed as part of review of the PEA Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/30/2002

Comments: Phase I Environmental Site Assessment submitted after site entered

into Voluntary Cleanup Program. Document reviewed as part of PEA

Workplan review.

Future Area Name: Not reported Future Sub Area Name: Not reported Not reported Future Document Type: Future Due Date: Not reported Not reported Schedule Area Name: Schedule Sub Area Name: Not reported Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

#### **ENVIROSTOR:**

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup

Acres: 10.28 NPL: NO

Regulatory Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY

Lead Agency: **SMBRP** Program Manager: Janet Naito Supervisor: Barbara Cook Division Branch: Cleanup Berkeley Facility ID: 07990014 201534 Site Code: Assembly: 11 Senate: 07

Special Program: Designation of Single Agency

Status: Certified
Status Date: 03/06/2006
Restricted Use: NO

Site Mgmt. Req.: NONE SPECIFIED Funding: Responsible Party

Latitude: 38.01108

Direction Distance

Elevation Site Database(s) EPA ID Number

### INDUSTRIAL LOT WITH RAILROAD SIDING (Continued)

S106568193

**EDR ID Number** 

Longitude: -121.7548

APN: 051-032-009-6, 051032009
Past Use: MANUFACTURING - PAPER

Potential COC: 30024, 3002502 Confirmed COC: 30024,3002502

Potential Description: SOIL

Alias Name: INDUSTRIAL LOT #2
Alias Type: Alternate Name

Alias Name: INDUSTRIAL LOT WITH RAILROAD SIDING

 Alias Type:
 Alternate Name

 Alias Name:
 051-032-009-6

 Alias Type:
 APN

 Alias Name:
 051032009

Alias Type: APN
Alias Name: 110033615130
Alias Type: FPA (FRS #)

Alias Type: EPA (FRS #)
Alias Name: 201534

Alias Type: Project Code (Site Code)

Alias Name: 07990014

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: DTSC designated lead administering agency.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Completed Date: 03/06/2006
Comments: PROJECT WIDE
Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 03/06/2006

Comments: PEA completed and no further action is required. In accordance with

Site Designation requirements, the site is certified.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Public Participation Plan / Community Relations Plan

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### INDUSTRIAL LOT WITH RAILROAD SIDING (Continued)

S106568193

Completed Date: 10/25/2004

Comments: Public Participation Plan approved for the nine Gaylord Mill and

Non-Mill Properties.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Other Report Completed Date: 07/31/2003

Comments: Report submitted once site entered into Voluntary Cleanup Agreement.

Report reviewed as part of review of the PEA Workplan.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Phase 1 Completed Date: 09/30/2002

Phase I Environmental Site Assessment submitted after site entered Comments:

into Voluntary Cleanup Program. Document reviewed as part of PEA

Workplan review.

Not reported Future Area Name: Future Sub Area Name: Not reported Future Document Type: Not reported Not reported Future Due Date: Schedule Area Name: Not reported Schedule Sub Area Name: Not reported Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

D15 **ANTIOCH PAVING** HIST CORTESE S102259981

2540 WILBUR AVE LUST N/A

ANTIOCH, CA 94509 < 1/8 **CONTRA COSTA CO. SITE LIST** 

0.090 mi. **HAZNET** 

Site 2 of 4 in cluster D 473 ft.

CORTESE: Relative:

NNE

Region: **CORTESE** Lower Facility County Code: 7 Actual: Reg By: **LTNKA** 32 ft. 070075

Reg Id:

LUST:

STATE Region: Global Id: T0601300794 Latitude: 38.0116749 Longitude: -121.771962 Case Type: LUST Cleanup Site Status: Completed - Case Closed

02/09/2000 Status Date:

Lead Agency: **CONTRA COSTA COUNTY** 

**BRU** Case Worker:

Local Agency: **CONTRA COSTA COUNTY** 

RB Case Number: 030075 LOC Case Number: Not reported File Location: Not reported Potential Media Affect:

Soil Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **ANTIOCH PAVING (Continued)**

S102259981

**EDR ID Number** 

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id: T0601300794

Contact Type: Regional Board Caseworker

Contact Name: PAT VELLINES

Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)

Address: 11020 SUN CENTER DRIVE #200

City: RANCHO CORDOVA

Email: pvellines@waterboards.ca.gov

Phone Number: Not reported

Global Id: T0601300794

Contact Type: Local Agency Caseworker

Contact Name: BRUCE BENIKI

Organization Name: CONTRA COSTA COUNTY

Address: Not reported
City: r5 UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:

 Global Id:
 T0601300794

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Discovery

 Global Id:
 T0601300794

 Action Type:
 ENFORCEMENT

 Date:
 01/11/2000

 Action:
 Staff Letter

 Global Id:
 T0601300794

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Reported

 Global Id:
 T0601300794

 Action Type:
 ENFORCEMENT

 Date:
 12/02/2005

Action: \* Verbal Communication

LUST REG 5:

Region: 5

Status: Case Closed Case Number: 030075 Case Type: Soil only

Substance: HYDROCARBONS

Staff Initials: PMV
Lead Agency: Local
Program: LUST
MTBE Code: N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

### **ANTIOCH PAVING (Continued)**

S102259981

**EDR ID Number** 

CONTRA COSTA CO. SITE LIST:

Region: CONTRA COSTA

Facility ID: 738072
Tier: Not reported
Program Status: HWG, Hmmp

Generator Fee Item: No

Inactive Date: Not reported

HAZNET:

Year: 2010

Gepaid: CAL000058335
Contact: CHRIS ALLISON
Telephone: 9257570123
Mailing Name: Not reported
Mailing Address: PO BOX 1669

Mailing City, St, Zip: ANTIOCH, CA 945090166

Gen County: Not reported
TSD EPA ID: NVD980895338
TSD County: Not reported

Waste Category: Unspecified oil-containing waste

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.3

Facility County: Contra Costa

Year: 2007

Gepaid: CAL000058335
Contact: CHRIS ALLISON
Telephone: 9257570123
Mailing Name: Not reported
Mailing Address: PO BOX 1669

Mailing City, St, Zip: ANTIOCH, CA 945090166

Gen County: Contra Costa
TSD EPA ID: CAD980884183
TSD County: Sacramento

Waste Category: Unspecified oil-containing waste

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.75

Facility County: Contra Costa

Year: 2006

Gepaid: CAL000058335
Contact: CHRIS ALLISON
Telephone: 9257570123
Mailing Name: Not reported
Mailing Address: PO BOX 1669

Mailing City, St, Zip: ANTIOCH, CA 945090166

Gen County: Contra Costa
TSD EPA ID: CAD980884183
TSD County: Sacramento

Waste Category: Unspecified oil-containing waste

Disposal Method: H01 Tons: 0.2 Facility County: 7

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **ANTIOCH PAVING (Continued)**

S102259981

2004 Year:

Gepaid: CAL000058335 Contact: **CHRIS ALLISON** Telephone: 9257570123 Mailing Name: Not reported Mailing Address: PO BOX 1669

Mailing City, St, Zip: ANTIOCH, CA 945090166

Gen County: Contra Costa TSD EPA ID: CAT080033681 TSD County: Los Angeles

Waste Category: Unspecified oil-containing waste

Disposal Method: D80 Tons: 0.1

Facility County: Not reported

Year: 2003

Gepaid: CAL000058335 Contact: **PAUL NEW** Telephone: 9257570123 Mailing Name: Not reported Mailing Address: PO BOX 1669

Mailing City, St, Zip: ANTIOCH, CA 945090166

Gen County: Contra Costa TSD EPA ID: CAT080033681 TSD County: Contra Costa

Waste Category: Unspecified oil-containing waste

Disposal Method: Not reported

Tons: 0.1 Facility County: 7

> Click this hyperlink while viewing on your computer to access 6 additional CA\_HAZNET: record(s) in the EDR Site Report.

C16 JBA COMPANIES, INC North 2400 WILBUR AVE

< 1/8

ANTIOCH, CA 94509 0.093 mi.

489 ft. Site 2 of 2 in cluster C

CONTRA COSTA CO. SITE LIST: Relative:

Region: **CONTRA COSTA** Lower

Facility ID: 772668 Actual: Tier: Not reported 33 ft. Program Status: Hmmp, AGT

Generator Fee Item: Yes 09/30/2007 Inactive Date:

S103464196

N/A

CONTRA COSTA CO. SITE LIST

Map ID Direction Distance

Elevation Site Database(s) **EPA ID Number** 

**D17 PACIFIC GAS & ELECTRIC CO** WDS S106175966

NNE 999 3RD ST SLIC N/A

SAN RAFAEL, CA 94901 **HIST LUST** < 1/8 0.097 mi. **SWEEPS UST** 

513 ft. Site 3 of 4 in cluster D **HAZNET EMI** 

Relative: Lower

CA WDS: Facility ID: 60 00U000049

Actual: Facility Type: Other - Does not fall into the category of Municipal/Domestic,

32 ft. Industrial, Agricultural or Solid Waste (Class I, II or III)

> Facility Status: Active - Any facility with a continuous or seasonal discharge that is

> > under Waste Discharge Requirements.

NPDES Number: CAG990002 The 1st 2 characters designate the state. The remaining 7

are assigned by the Regional Board

Subregion:

Facility Telephone: Not reported

Facility Contact: VICTOR G. FURTADO

Agency Name: PACIFIC GAS & ELECTRIC CO

Agency Address: PO BOX 7640

Agency City, St, Zip: SAN FRANCISCO 941207640

VICTOR G. FURTADO Agency Contact:

Agency Telephone: Not reported Private

Agency Type:

SIC Code: SIC Code 2: Not reported

Primary Waste: Not reported Primary Waste Type: Not reported Secondary Waste: Not reported

Secondary Waste Type: Not reported Design Flow: 0

Baseline Flow: 0

Reclamation: Not reported POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order

> should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to

represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as

cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

dairy waste ponds.

SLIC REG 5:

Region:

Facility Status: **Preliminary Assessment** Facility is a Spill or site Unit:

Pollutant: Not reported Lead Agency: Not reported Date Filed: 02/27/04 Report Date: 02/24/04 Date Added: Not reported Date Closed: Not reported

**EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

### PACIFIC GAS & ELECTRIC CO (Continued)

S106175966

**EDR ID Number** 

HIST LUST SANTA CLARA:

Region: SANTA CLARA

Region Code: 2

SCVWD ID: 07S1E07L07 Oversite Agency: SCVWD

Date Listed: 2001-07-23 00:00:00 Closed Date: 2003-12-19 00:00:00

SWEEPS UST:

Status: Not reported Comp Number: 1428 Not reported Number: Board Of Equalization: 44-027744 Ref Date: Not reported Act Date: Not reported Created Date: Not reported Tank Status: Not reported Owner Tank Id: Not reported

Swrcb Tank Id: 49-000-001428-000001

Actv Date: Not reported
Capacity: 5000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL

Number Of Tanks: 1

HAZNET:

Year: 2003

Gepaid: CAC002569756
Contact: JEFF BRICKER
Telephone: 4152573148
Mailing Name: Not reported

Mailing Address: 1220 ANDERSEN DR

Mailing City, St, Zip: SAN RAFAEL, CA 949010000

Gen County: Marin

TSD EPA ID: CAT000646117

TSD County: Marin

Waste Category: Contaminated soil from site clean-up

Disposal Method: D80
Tons: 26.11
Facility County: Marin

EMI:

 Year:
 1987

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name:

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule:

Not reported

Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 15
Reactive Organic Gases Tons/Yr: 7
Carbon Monoxide Emissions Tons/Yr: 0

Map ID Direction Distance Elevation

Site Database(s) EPA ID Number

# PACIFIC GAS & ELECTRIC CO (Continued)

S106175966

**EDR ID Number** 

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 1990

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name:

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule:

Not reported

Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 7
Reactive Organic Gases Tons/Yr: 5
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 1993

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 7
Reactive Organic Gases Tons/Yr: 3
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 1995

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 17

Reactive Organic Aydrocarbon Gases Tons/Yr: 17
Reactive Organic Gases Tons/Yr: 12
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 1996

Map ID Direction Distance Elevation

Site Database(s) EPA ID Number

### PACIFIC GAS & ELECTRIC CO (Continued)

S106175966

**EDR ID Number** 

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name:

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule:

BAY AREA AQMD

Not reported

Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 5
Reactive Organic Gases Tons/Yr: 4
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 1997

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 5
Reactive Organic Gases Tons/Yr: 4
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 1998

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 8
Reactive Organic Gases Tons/Yr: 4
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 1999

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name: BAY AREA AQMD

Map ID Direction Distance Elevation

Site Database(s) EPA ID Number

### PACIFIC GAS & ELECTRIC CO (Continued)

S106175966

**EDR ID Number** 

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 8
Reactive Organic Gases Tons/Yr: 6
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 2000

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 8
Reactive Organic Gases Tons/Yr: 6
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 2001

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name:

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule:

BAY AREA AQMD

Not reported

Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 12
Reactive Organic Gases Tons/Yr: 8
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

 Year:
 2002

 County Code:
 43

 Air Basin:
 SF

 Facility ID:
 3062

 Air District Name:
 BA

 SIC Code:
 3674

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 12
Reactive Organic Gases Tons/Yr: 9
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

PACIFIC GAS & ELECTRIC CO (Continued)

S106175966

**EDR ID Number** 

SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: 0 Part. Matter 10 Micrometers & Smllr Tons/Yr:

Year: 2003 County Code: 43 SF Air Basin: Facility ID: 3062 Air District Name: BA SIC Code: 3674

**BAY AREA AQMD** Air District Name: Not reported Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 12 Reactive Organic Gases Tons/Yr: 8 Carbon Monoxide Emissions Tons/Yr: 0 NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr:

**GAYLORD CONTAINER CORPORATION-EAST MILL** D18

S111460063 **NPDES** 2603 WILBUR AVE **SLIC** N/A

**NNE** < 1/8 ANTIOCH, CA **VCP** 

0.097 mi. **ENVIROSTOR** 

513 ft. Site 4 of 4 in cluster D

NPDES: Relative:

CAS000001 Npdes Number: Lower Facility Status: Terminated

Actual: Agency Id:

32 ft. Region: Not reported

Regulatory Measure Id: 338953 Order No: 97-03-DWQ Regulatory Measure Type: Enrollee Not reported Place Id:

WDID: 5S07I021387 Program Type: Industrial Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 01/03/2008 Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: 08/23/2010

Discharge Name: Forestar USA Real Estate Group Inc

Discharge Address: PO Box 10 Discharge City: Antioch Discharge State: California Discharge Zip: 94509

SLIC:

Region: STATE

**Facility Status:** Open - Remediation 12/01/2011 Status Date: Global Id: SL0601314468

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)

Lead Agency Case Number: Not reported Latitude: 38.014833 Longitude: -121.77047

Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Case Type: Cleanup Program Site

Case Worker: SS

Local Agency:

RB Case Number:

File Location:

Potential Media Affected:

Not reported

Not reported

Not reported

Potential Contaminants of Concern: \* Perchlorate, \* Volatile Organic Compounds (VOC)

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

VCP:

Facility ID: 07260003
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED

Acres: 80.11 National Priorities List: NO

Cleanup Oversight Agencies: SMBRP, RWQCB 5S - Central Valley

Lead Agency: SMBRP

Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program

Project Manager: Katharine Hilf
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley

 Site Code:
 201536

 Assembly:
 11

 Senate:
 07

Special Programs Code: Designation of Single Agency

Status: Active
Status Date: 01/27/2004
Restricted Use: NO

Funding: Responsible Party
Lat/Long: 38.01415 / -121.7701
APN: 051-031-005-5, 051031005

Past Use: MANUFACTURING - PAPER, MANUFACTURING - PAPER
Potential COC: 30009, 40001, 30009, 30013, 30018, 30019, 30024, 3002502, 30298
Confirmed COC: 30009, 30009,30013,30019,30024,3002502,30298,40001-NO,30018

Potential Description: OTH, SOIL, OTH, SOIL

Alias Name: EAST MILL
Alias Type: Alternate Name
Alias Name: 051-031-005-5

Alias Type: APN
Alias Name: 051031005
Alias Type: APN

 Alias Name:
 110033618725

 Alias Type:
 EPA (FRS #)

 Alias Name:
 SL0601314468

 Alias Type:
 GeoTracker Global ID

Alias Name: 201536

Alias Type: Project Code (Site Code)

Alias Name: 07260003

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill.

Completed Area Name: Black Liquor Pond Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Initial Study/ Neg. Declaration

Completed Date: 11/01/2004

Comments: The Negative Declaration underwent a public comment period from

September 22, 2004 through October 22, 2004. In addition, a public

meeting was held on Thursday, September 23, 2004.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: Held site conference pursuant to H&SC Section 25398.2.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: Black Liquor Pond
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan

Completed Date: 11/01/2004

Comments: Approve Remedial Action Plan (RAP) to address the black liquor pond

area. The draft RAP recommended removal and offsite disposal of black liquor pond materials. The draft RAP underwent a public comment period which ran from September 1, 2004 through October 22, 2004.

Completed Area Name: Black Liquor Pond Completed Sub Area Name: Not reported

Completed Document Type: Design/Implementation Workplan

Completed Date: 11/12/2004

Comments: Remedial Design for removal of the black liquor pond approved.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Public Participation Plan / Community Relations Plan

Completed Date: 10/25/2004

Comments: Approve Public Participation Plan for the nine sites addressed under

the Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/24/2009

Comments: Letter sent out approving the changes to the groundwater monitoring

program proposed in the 4/16/2009 memorandum from PES Environmental.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

Direction
Distance

Elevation Site Database(s) EPA ID Number

#### **GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)**

S111460063

**EDR ID Number** 

Completed Date: 03/23/2009

Comments: Health and Safety Plan accepted for the file, reviewed to ensure it

covered this site and appropriate chemicals of concern, then filed.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Characterization Workplan

Completed Date: 04/24/2009

Comments: Letter approving the revised Work Plan proposing soil vapor sampling

at 30 locations, lithologic characterization using MIP/CPT, and

installation of additional groundwater monitoring wells.

Completed Area Name: Black Liquor Pond Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation / Feasibility Study

Completed Date: 08/30/2004

Comments: Approved forcused RIFS for black liquor pond area. The black liquor

pond, an area roughly 125 by 450 feet, with a maximum depth of 21 feet below ground surface, is located on the southeast corner of the Site. From the early 1950s until approximately 1970, the pond was used intermittently to store oblack liquor, o a byproduct of the mill operation. It was later backfilled with soil and wood chips. Soil samples show higher than usual amounts of some metals and dioxins/furans in the black liquor pond. The contaminants are generally limited to the black liquor pond area boundaries.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Completion Report

Completed Date: 02/16/2012 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 04/15/2011

Comments: The Final RAW was approved on April 14, 2011. Next step is the

implementation field work for the site. Estimated time is from April

18 to June 25th.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 06/09/2005 Comments: Not reported

Completed Area Name: Black Liquor Pond Completed Sub Area Name: Not reported

Completed Document Type: Remedial Action Completion Report

Completed Date: 11/22/2005

Comments: DTSC approved implementation report for the interim action taken to

remove the ~125 by 450 foot black liquor pond at this Site. Chemicals of concern in the black liquor pond fill material were lead, nickel and dioxin/furans. In total, 1,747 truck loads or 45,840 tons (34,955 cy) of BLP fill material were removed from the site between November 19, 2004 and January 31, 2005. Backfilling and

regrading were completed in May 2005.

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 03/28/2006

Comments: Groundwater monitoring will be conducted in April 2006 and September

2006 for metals, TPH, VOCs, PAHs and dioxin/furans. One additional

upgradient well will be installed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/06/2011

Comments: Field work is completed for the soil RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/09/2011

Comments: Public Comment period is March 9 to April 11. CEQA unit approved the

Initial Study and Negative Declaration on March 7.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Action Completion Report

Completed Date: 09/13/2011

Comments: Letter approval of the Above Ground and Below Ground Demoition

Completion Reports with no further comments from DTSC.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Workplan

Completed Date: 06/08/2006

Comments: DTSC approved plan to collect additional soil vapor and groundwater

samples.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Workplan

Completed Date: 08/24/2006

Comments: DTSC approved additional groundwater sampling to better define the extent of volatile organic compounds contamination in groundwater.

PROJECT WIDE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
09/08/2005

Comments: Workplan approved with modifications for additional groundwater

monitoring and soil sampling.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Workplan

Completed Date: 05/11/2005

Comments: Workplan is approved with modifications.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Completed Document Type: Remedial Investigation Workplan

Completed Date: 08/01/2007

Comments: Reviewed plans to ensure that the additional investigation activities

proposed were consistent with previous discussions with the consultant. It was consistent, therefore no comments provided and

work was conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/02/2007

Comments: Report documents February and May 2007 groundwater sampling events.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 10/28/2011

Comments: Final RAW for the PCE Groundwater Plume. Public Comment period

9/23/2011 to 10/24/2011. No comments received.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/19/2011

Comments: RP and consultant had edits that were corrected 9-19-2011. Public

partication group will mail for the public comment period of 9-23 to

10-24, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/23/2008

Comments: 4Q 2008 Groundwater Monitoring Report approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/09/2009

Comments: First quarter groundwater monitoring conducted in January 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan

Completed Date: 05/13/2008

Comments: Workplan accepted with modifications. Boring logs and results of the

step and longer term extraction testing will be submitted to

facilitate review of the proposed injection testing.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Pilot Study/Treatability Workplan

Completed Date: 05/25/201

Comments: The GSU comments were addressed and the ISCO has been approved with

the conditions as agreed.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Completed Document Type: Remedial Investigation Workplan

Completed Date: 12/07/2006

Comments: Plan was approved with modifications. An additional multi-port

groundwater monitoring well was required.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: \*Correspondence - Received

Completed Date: 04/23/2008

Comments: Proposal accepted with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan

Completed Date: 05/28/2008

Comments: DTSC coordinated with the Water Board to approve this injection

workplan. Injection test will be initiated on 6/2/2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/04/2005

Comments: Fact Sheet providing an update on work taking place at the 9 Gaylord

sites being addressed under the VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/20/2006

Comments: Fact Sheet providing a status update for the 9 sites covered under

the VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report accepted. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report accepted. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 01/31/2002

Comments: Phase I Environmental Site Assessment submitted once site entered

into the Voluntary Cleanup Program. Document reviewed as part of PEA

Workplan review.

Completed Area Name: Black Liquor Pond
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/30/2004

Comments: Fact Sheet announces a public comment period on plans to remove the

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)**

S111460063

**EDR ID Number** 

former black liquor pond as an interim action. Black liquor pond material would be excavated and disposed offsite at an appropriately permitted landfill. Public comment period to run from 9/1/2004 to

10/1/2004.

Completed Area Name: Black Liquor Pond
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/20/2004

Comments: Due to minor changes in the project to address potential cultural

resource and transportation issues, the public comment period for the RAP has been extended to October 22, 2004 and the public comment period for the Negative Declaration will begin on September 22, 2004

and end on October 22, 2004.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report accepted. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan

Completed Date: 08/24/2009

Comments: Work approved with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/13/2011

Comments: Letter approval of the Above Ground and Below Ground Demoition

Completion Reports with no further comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 03/09/2011

Comments: Public Comment period is March 9 to April 11. Published in the Contra

Costa Times on 3-10-2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/21/2007
Comments: Report accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/16/2011

Comments: Third and Fourth quarter 2010 reports were approved on 9-16-2011.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Long Term Monitoring Report

Completed Date: 09/16/2011

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Comments: Third and Fourth quarter 2010 reports were approved on 9-16-2011. No

electronio copy is available for the fourth Quarter report. A email request. for the electronic copy of the report was sent to PES on

9-15-2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/10/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/19/2011

Comments: RP and consultant had edits that were corrected 9-19-2011. PES will

place in the newspaper- East Contra Costa Times for publication on Friday- 9-23-2011. The public comment period 9-23 to 10-24, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
11/16/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Amendment - Order/Agreement

Completed Date: 08/14/2008

Comments: Existing Voluntary Cleanup Agreement amended to remove seven sites

that were certified and to change the Project Proponent to Forestar

(USA) Real Estate Group, Inc., the new property owner.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)

Completed Date: 06/06/2011

Comments: The NOD was filed on 06/06/2011 with the filing fee for the

Department of Fish and Game.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/11/2004

Comments: Community survey mailed out to Site mailing list.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 10/12/2011

Comments: Sent out annual cost estimate

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 10/26/2011

Comments: Signed on October 26, 2011. No comments received from the Public

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)**

S111460063

**EDR ID Number** 

Comment Period of 9/23 to 10/24/2011.

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Plan

Future Due Date: 2013

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Remedial Action Completion Report

Future Due Date: 2013

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2014

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Land Use Restriction

Future Due Date: 2013

Schedule Area Name: Black Liquor Pond Schedule Sub Area Name: Not reported

Schedule Document Type: Remedial Investigation / Feasibility Study

Schedule Due Date: 06/14/2012 Schedule Revised Date: Not reported

**ENVIROSTOR:** 

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup

Acres: 80.11 NPL: NO

Regulatory Agencies: SMBRP, RWQCB 5S - Central Valley

Lead Agency: SMBRP
Program Manager: Katharine Hilf
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Facility ID: 07260003
Site Code: 201536
Assembly: 11

Senate: 07

Special Program: Designation of Single Agency

Status: Active
Status Date: 01/27/2004
Restricted Use: NO

Site Mgmt. Req.: NONE SPECIFIED Funding: Responsible Party Latitude: 38.01415

Longitude: -121.7701

APN: 051-031-005-5, 051031005

Past Use: MANUFACTURING - PAPER, MANUFACTURING - PAPER

Potential COC: 30009, 40001, 30009, 30013, 30018, 30019, 30024, 3002502, 30298 Confirmed COC: 30009, ,30009,30013,30019,30024,3002502,30298,40001-NO,30018

Potential Description: OTH, SOIL, OTH, SOIL Alias Name: EAST MILL

Alias Type: Alternate Name
Alias Name: 051-031-005-5
Alias Type: APN

Alias Type: APN
Alias Name: 051031005
Alias Type: APN

Direction Distance

Elevation Site Database(s) EPA ID Number

## GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

 Alias Name:
 110033618725

 Alias Type:
 EPA (FRS #)

 Alias Name:
 SL0601314468

 Alias Type:
 GeoTracker Global ID

Alias Name: 201536

Alias Type: Project Code (Site Code)

Alias Name: 07260003

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill.

Completed Area Name: Black Liquor Pond Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Initial Study/ Neg. Declaration

Completed Date: 11/01/2004

Comments: The Negative Declaration underwent a public comment period from

September 22, 2004 through October 22, 2004. In addition, a public

meeting was held on Thursday, September 23, 2004.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: Held site conference pursuant to H&SC Section 25398.2.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: Black Liquor Pond
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan

Completed Date: 11/01/2004

Comments: Approve Remedial Action Plan (RAP) to address the black liquor pond

area. The draft RAP recommended removal and offsite disposal of black liquor pond materials. The draft RAP underwent a public comment period which ran from September 1, 2004 through October 22, 2004.

Completed Area Name: Black Liquor Pond Completed Sub Area Name: Not reported

Completed Document Type: Design/Implementation Workplan

Completed Date: 11/12/2004

Comments: Remedial Design for removal of the black liquor pond approved.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Public Participation Plan / Community Relations Plan

Completed Date: 10/25/2004

Comments: Approve Public Participation Plan for the nine sites addressed under

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)**

S111460063

**EDR ID Number** 

the Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/24/2009

Comments: Letter sent out approving the changes to the groundwater monitoring

program proposed in the 4/16/2009 memorandum from PES Environmental.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/23/2009

Comments: Health and Safety Plan accepted for the file, reviewed to ensure it

covered this site and appropriate chemicals of concern, then filed.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Characterization Workplan

Completed Date: 04/24/2009

Comments: Letter approving the revised Work Plan proposing soil vapor sampling

at 30 locations, lithologic characterization using MIP/CPT, and

installation of additional groundwater monitoring wells.

Completed Area Name: Black Liquor Pond Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation / Feasibility Study

Completed Date: 08/30/2004

Comments: Approved forcused RIFS for black liquor pond area. The black liquor

pond, an area roughly 125 by 450 feet, with a maximum depth of 21 feet below ground surface, is located on the southeast corner of the Site. From the early 1950s until approximately 1970, the pond was used intermittently to store oblack liquor, o a byproduct of the mill operation. It was later backfilled with soil and wood chips. Soil samples show higher than usual amounts of some metals and dioxins/furans in the black liquor pond. The contaminants are generally limited to the black liquor pond area boundaries.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Completion Report

Completed Date: 02/16/2012 Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 04/15/2011

Comments: The Final RAW was approved on April 14, 2011. Next step is the

implementation field work for the site. Estimated time is from April

18 to June 25th.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 06/09/2005
Comments: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)**

S111460063

**EDR ID Number** 

Completed Area Name: Black Liquor Pond Completed Sub Area Name: Not reported

Completed Document Type: Remedial Action Completion Report

Completed Date: 11/22/2005

Comments: DTSC approved implementation report for the interim action taken to

remove the ~125 by 450 foot black liquor pond at this Site. Chemicals of concern in the black liquor pond fill material were lead, nickel and dioxin/furans. In total, 1,747 truck loads or 45,840 tons (34,955 cy) of BLP fill material were removed from the site between November 19, 2004 and January 31, 2005. Backfilling and

regrading were completed in May 2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 03/28/2006

Comments: Groundwater monitoring will be conducted in April 2006 and September

2006 for metals, TPH, VOCs, PAHs and dioxin/furans. One additional

upgradient well will be installed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/06/2011

Comments: Field work is completed for the soil RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 03/09/2011

Comments: Public Comment period is March 9 to April 11. CEQA unit approved the

Initial Study and Negative Declaration on March 7.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Action Completion Report

Completed Date: 09/13/2011

Comments: Letter approval of the Above Ground and Below Ground Demoition

Completion Reports with no further comments from DTSC.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Workplan

Completed Date: 06/08/2006

Comments: DTSC approved plan to collect additional soil vapor and groundwater

samples.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Workplan

Completed Date: 08/24/2006

Comments: DTSC approved additional groundwater sampling to better define the

extent of volatile organic compounds contamination in groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Completed Date: 09/08/2005

Comments: Workplan approved with modifications for additional groundwater

monitoring and soil sampling.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Workplan

Completed Date: 05/11/2005

Comments: Workplan is approved with modifications.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Workplan

Completed Date: 08/01/2007

Comments: Reviewed plans to ensure that the additional investigation activities

proposed were consistent with previous discussions with the consultant. It was consistent, therefore no comments provided and

work was conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/02/2007

Comments: Report documents February and May 2007 groundwater sampling events.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 10/28/2011

Comments: Final RAW for the PCE Groundwater Plume. Public Comment period

9/23/2011 to 10/24/2011. No comments received.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/19/2011

Comments: RP and consultant had edits that were corrected 9-19-2011. Public

partication group will mail for the public comment period of 9-23 to

10-24, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/23/2008

Comments: 4Q 2008 Groundwater Monitoring Report approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/09/2009

Comments: First quarter groundwater monitoring conducted in January 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 05/13/2008

Comments: Workplan accepted with modifications. Boring logs and results of the

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

step and longer term extraction testing will be submitted to facilitate review of the proposed injection testing.

Completed Area Name: PROJECT WIDE

Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan

Completed Date: 05/25/2010

Comments: The GSU comments were addressed and the ISCO has been approved with

the conditions as agreed.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Workplan

Completed Date: 12/07/2006

Comments: Plan was approved with modifications. An additional multi-port

groundwater monitoring well was required.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: \*Correspondence - Received

Completed Date: 04/23/2008

Comments: Proposal accepted with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 05/28/2008

Comments: DTSC coordinated with the Water Board to approve this injection

workplan. Injection test will be initiated on 6/2/2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/04/2005

Comments: Fact Sheet providing an update on work taking place at the 9 Gaylord

sites being addressed under the VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/20/2006

Comments: Fact Sheet providing a status update for the 9 sites covered under

the VCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report accepted. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report accepted. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Completed Sub Area Name: Not reported Completed Document Type: Phase 1 01/31/2002

Comments: Phase I Environmental Site Assessment submitted once site entered

into the Voluntary Cleanup Program. Document reviewed as part of PEA

Workplan review.

Completed Area Name: Black Liquor Pond
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 08/30/2004

Comments: Fact Sheet announces a public comment period on plans to remove the

former black liquor pond as an interim action. Black liquor pond material would be excavated and disposed offsite at an appropriately permitted landfill. Public comment period to run from 9/1/2004 to

10/1/2004.

Completed Area Name: Black Liquor Pond
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/20/2004

Comments: Due to minor changes in the project to address potential cultural

resource and transportation issues, the public comment period for the RAP has been extended to October 22, 2004 and the public comment period for the Negative Declaration will begin on September 22, 2004

and end on October 22, 2004.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report accepted. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 08/24/2009

Completed Date: 06/24/2009

Comments: Work approved with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/13/2011

Comments: Letter approval of the Above Ground and Below Ground Demoition

Completion Reports with no further comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 03/09/2011

Comments: Public Comment period is March 9 to April 11. Published in the Contra

Costa Times on 3-10-2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/21/2007

Direction Distance

Elevation Site Database(s) EPA ID Number

### GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)

S111460063

**EDR ID Number** 

Comments: Report accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/16/2011

Comments: Third and Fourth quarter 2010 reports were approved on 9-16-2011.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Long Term Monitoring Report

Completed Date: 09/16/2011

Comments: Third and Fourth quarter 2010 reports were approved on 9-16-2011. No

electronio copy is available for the fourth Quarter report. A email request, for the electronic copy of the report was sent to PES on

9-15-2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/10/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/19/2011

Comments: RP and consultant had edits that were corrected 9-19-2011. PES will place in the newspaper- East Contra Costa Times for publication on

Priday- 9-23-2011. The public comment period 9-23 to 10-24, 2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/16/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Amendment - Order/Agreement

Completed Date: 08/14/2008

Comments: Existing Voluntary Cleanup Agreement amended to remove seven sites

that were certified and to change the Project Proponent to Forestar

(USA) Real Estate Group, Inc., the new property owner.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)

Completed Date: 06/06/2011

Comments: The NOD was filed on 06/06/2011 with the filing fee for the

Department of Fish and Game.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/11/2004

Community survey mailed out to Site mailing list.

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

### **GAYLORD CONTAINER CORPORATION-EAST MILL (Continued)**

S111460063

**EDR ID Number** 

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 10/12/2011

Comments: Sent out annual cost estimate

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 10/26/2011

Comments: Signed on October 26, 2011. No comments received from the Public

Comment Period of 9/23 to 10/24/2011.

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Plan

2013 Future Due Date:

PROJECT WIDE Future Area Name: Future Sub Area Name: Not reported

Remedial Action Completion Report Future Document Type:

Future Due Date: 2013

Future Area Name: **PROJECT WIDE** Not reported Future Sub Area Name: Future Document Type: Certification Future Due Date: 2014 Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported Future Document Type: Land Use Restriction

Future Due Date: 2013

Black Liquor Pond Schedule Area Name: Schedule Sub Area Name: Not reported

Remedial Investigation / Feasibility Study Schedule Document Type:

Schedule Due Date: 06/14/2012 Schedule Revised Date: Not reported

E19 **KIEWIT POWER CONSTRUCTORS CO** 

2925 WILBUR AVE

CONTRA COSTA CO. SITE LIST S110979463

**CHMIRS** N/A

< 1/8 ANTIOCH, CA

0.109 mi.

NE

Site 1 of 2 in cluster E 575 ft.

CONTRA COSTA CO. SITE LIST: Relative:

Region: **CONTRA COSTA** Lower

Facility ID: 774345 Actual: Tier: Not reported 27 ft. Program Status: HWG, Hmmp, AGT

> Generator Fee Item: No

Inactive Date: Not reported

CHMIRS:

'10-2915 **OES Incident Number:** 

OES notification: 5/10/2010 1:39:00 PM

OES Date: Not reported **OES Time:** Not reported Incident Date: Not reported **Date Completed:** Not reported Not reported Property Use:

Map ID Direction Distance Elevation

vation Site Database(s) EPA ID Number

#### **KIEWIT POWER CONSTRUCTORS CO (Continued)**

S110979463

**EDR ID Number** 

Agency Id Number: Not reported Not reported Agency Incident Number: Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported Not reported Property Management: Special Studies 1: Not reported Special Studies 2: Not reported Special Studies 3: Not reported Special Studies 4: Not reported Special Studies 5: Not reported Special Studies 6: Not reported

More Than Two Substances Involved?:
Resp Agncy Personel # Of Decontaminated:
Responding Agency Personel # Of Injuries:
Responding Agency Personel # Of Fatalities:
Others Number Of Decontaminated:
Others Number Of Injuries:
Others Number Of Fatalities:
Not reported

Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA/DOT/PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Comments: Not reported Facility Telephone: Not reported Waterway Involved: No

Waterway: Not reported Spill Site: Other Cleanup By: Unknown Containment: Not reported Not reported What Happened: Type: Not reported Measure: Unknown Other: Not reported Date/Time: 1000 2010 Year: NRC Agency: Incident Date: 5/10/2010

Admin Agency: Contra Costa County Health Services Department

Amount: Not reported Contained: Unknown Site Type: Not reported E Date: Not reported Substance: Oil Fuel No.2-D Not reported Quantity Released: BBLS: Not reported Cups: Not reported CUFT: Not reported Gallons: Not reported Grams: Not reported Pounds: Not reported Liters: Not reported

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **KIEWIT POWER CONSTRUCTORS CO (Continued)**

S110979463

S101581089

N/A

CA FID UST

**SWEEPS UST** 

Ounces: Not reported Pints: Not reported Quarts: Not reported Sheen: Not reported Tons: Not reported Not reported Unknown: Not reported Evacuations: Not reported Number of Injuries: Number of Fatalities: Not reported

Description: Per NRC FAX: Caller stated there is a spill of materials from a huge

> fuel oil tanks that are being cleaned. Caller stated it is unknown if the persons cleaning the storage tanks have permits to clean the

tanks.

F20 ANTIOCH PAVING CO. YARD North **CRN WILBUR & VIERA AVE** 

< 1/8 ANTIOCH, CA 94509

599 ft. Site 1 of 2 in cluster F

CA FID UST: Relative:

0.113 mi.

Facility ID: 07001377 Lower Regulated By: **UTNKA** Actual: Regulated ID: Not reported

32 ft. Cortese Code: Not reported SIC Code: Not reported Facility Phone: 4157570123 Not reported Mail To:

CRN WILBUR & VIERA AVE Mailing Address:

Mailing Address 2: Not reported Mailing City, St, Zip: ANTIOCH 94509 Contact: Not reported Contact Phone: Not reported **DUNs Number:** Not reported NPDES Number: Not reported EPA ID: Not reported Comments: Not reported Active Status:

SWEEPS UST:

Status: 38072 Comp Number: Number:

Board Of Equalization: 44-002393 Ref Date: 10-31-91 Act Date: 10-31-91 Created Date: 07-22-88 Tank Status: Α Owner Tank Id:

Swrcb Tank Id: 07-000-038072-000001

Actv Date: 10-31-91 Capacity: 7500 Tank Use: M.V. FUEL Sta: Content: **DIESEL** Number Of Tanks:

Direction Distance Elevation

ance EDR ID Number ation Site Database(s) EPA ID Number

# **ANTIOCH PAVING CO. YARD (Continued)**

S101581089

 Status:
 A

 Comp Number:
 38072

 Number:
 1

 Board Of Equalization:
 44-002393

 Ref Date:
 10-31-91

 Act Date:
 10-31-91

 Created Date:
 07-22-88

 Tank Status:
 A

Swrcb Tank Id: 07-000-038072-000002

Actv Date: 10-31-91
Capacity: 4000
Tank Use: M.V. FUEL

Stg: P

Owner Tank Id:

Status:

Content: REG UNLEADED Number Of Tanks: Not reported

Α

 Comp Number:
 38072

 Number:
 1

 Board Of Equalization:
 44-002393

 Ref Date:
 10-31-91

 Act Date:
 10-31-91

 Created Date:
 07-22-88

 Tank Status:
 A

 Owner Tank Id:
 3

Swrcb Tank Id: 07-000-038072-000003

 Actv Date:
 10-31-91

 Capacity:
 1500

 Tank Use:
 M.V. FUEL

Stg: P

Content: REG UNLEADED Number Of Tanks: Not reported

Status: Α Comp Number: 38072 Number: Board Of Equalization: 44-002393 Ref Date: 10-31-91 Act Date: 10-31-91 Created Date: 07-22-88 Tank Status: Α Owner Tank Id:

Swrcb Tank Id: 07-000-038072-000004

 Actv Date:
 10-31-91

 Capacity:
 500

 Tank Use:
 M.V. FUEL

Stg:

Content: REG UNLEADED Number Of Tanks: Not reported

Map ID Direction Distance

Elevation Site Database(s) **EPA ID Number** 

21 LOUISIANA PACIFIC CORP SAN JOAQUIN MILL RCRA-SQG 1000262972 FINDS CAD009151705

**EDR ID Number** 

NNE **EAST WILBUR AVE** ANTIOCH, CA 94509 < 1/8

0.115 mi. 609 ft.

RCRA-SQG: Relative:

Date form received by agency: 09/01/1996 Lower

LOUISIANA-PACIFIC CORP SAN JOAQUIN MILL Facility name:

Actual: Facility address: E WILBUR AVE 29 ft. ANTIOCH, CA 94509

EPA ID: CAD009151705

Mailing address: PO BOX 190

ANTIOCH, CA 94509

Contact: Not reported Contact address: Not reported Not reported

Contact country: Not reported Contact telephone: Not reported Contact email: Not reported

EPA Region: 09

Small Small Quantity Generator Classification:

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: **GAYLORD CONTAINER CORPORATION** 

Owner/operator address: PO BOX 190

ANTIOCH, CA 94509

Not reported Owner/operator country: Owner/operator telephone: (415) 757-4000 Private

Legal status:

Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Owner/operator name: LOUISIANA-PACIFIC CORP

PO BOX 190 Owner/operator address:

CITY NOT REPORTED, CA 99999

Owner/operator country: Not reported Owner/operator telephone: (415) 757-4000 Legal status: Private Owner/Operator Type: Operator Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## LOUISIANA PACIFIC CORP SAN JOAQUIN MILL (Continued)

1000262972

Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

**Historical Generators:** 

Date form received by agency: 01/31/1986

LOUISIANA-PACIFIC CORP SAN JOAQUIN MILL Facility name:

Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008260906

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

G22 CONSTRUCTION DRILLING EQUIPMENT INC CONTRA COSTA CO. SITE LIST S110326402 N/A

**ESE** 2750 E 18TH ST < 1/8 ANTIOCH, CA

0.118 mi.

Site 1 of 6 in cluster G 624 ft.

CONTRA COSTA CO. SITE LIST: Relative:

Region: **CONTRA COSTA** Higher Facility ID: 772936

Actual: Tier: Not reported 48 ft.

Program Status: HWG, Hmmp

Generator Fee Item: No Inactive Date: Not reported

F23 HIST UST U001596254

**CORNER VIERA & WILBUR AVENUES** North ANTIOCH, CA 94509 < 1/8

0.121 mi.

Site 2 of 2 in cluster F 638 ft.

HIST UST: Relative:

STATE Region: Lower 00000038072 Facility ID: Actual: Facility Type: Other

32 ft. Other Type: CONTRACTOR'S YARD

> Total Tanks: 0004

**ROLAND CRAM** Contact Name: 4157570123 Telephone:

N/A

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

YARD (Continued) U001596254

Owner Name: ANTIOCH PAVING CO., INC.

Owner Address: RT. 1, BOX 612 Owner City,St,Zip: ANTIOCH, CA 94509

Tank Num: 001
Container Num: 1
Year Installed: 1978
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 1/4" inches
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: 1978
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 3/16" inches
Leak Detection: None

Tank Num: 003 Container Num: 3 1968 Year Installed: Tank Capacity: 00001500 **PRODUCT** Tank Used for: Type of Fuel: **REGULAR** Tank Construction: 3/16" inches Leak Detection: None

Tank Num: 004
Container Num: 4
Year Installed: 1968
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 3/16" inches
Leak Detection: None

E24 DNG TRANSPORTATION
NE 3000 WILBUR AVE
1/8-1/4 ANTIOCH, CA 94509

0.139 mi.

734 ft. Site 2 of 2 in cluster E

Relative: CONTRA COSTA CO. SITE LIST:

Lower Region: CONTRA COSTA

Facility ID: 773651

Actual: Tier: Not reported
24 ft. Program Status: Hmmp
Generator Fee Item: Yes
Inactive Date: 07/28/2009

TC3346200.2s Page 60

N/A

CONTRA COSTA CO. SITE LIST \$107591815

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

G25 **AMERICAN MEDICAL RESPONSE** CONTRA COSTA CO. SITE LIST S108935450

N/A

1791 VINEYARD DR **East** ANTIOCH, CA 1/8-1/4

0.152 mi.

801 ft. Site 2 of 6 in cluster G

CONTRA COSTA CO. SITE LIST: Relative:

CONTRA COSTA Higher Region:

Facility ID: 773784 Actual: Tier: Not reported 53 ft. Program Status: Hmmp Generator Fee Item:

Inactive Date: Not reported

CONTRA COSTA CO. SITE LIST \$105850312 G26 **SUN CHEMICAL** N/A

1781 VINEYARD DR #100 **East** 

1/8-1/4 ANTIOCH, CA

0.152 mi.

802 ft. Site 3 of 6 in cluster G

CONTRA COSTA CO. SITE LIST: Relative:

**CONTRA COSTA** Region: Higher

Facility ID: 773236

Actual: Tier: Not reported 53 ft. Program Status: HWG, Hmmp

> Generator Fee Item: No

Inactive Date: Not reported

H27 HIST CORTESE \$105022533 **MILITARY FAMILY HOUSING 2300 WILBUR CONTRA COSTA CO. SITE LIST** N/A

NNW 1/8-1/4 ANTIOCH, CA 94509

0.154 mi.

815 ft. Site 1 of 5 in cluster H

CORTESE: Relative:

Region: CORTESE Lower

Facility County Code:

Actual: Reg By: **LTNKA** 32 ft. Reg Id: 3009

CONTRA COSTA CO. SITE LIST:

Region: **CONTRA COSTA** 

Facility ID: 773349 Tier: Not reported Program Status: Hmmp Generator Fee Item: No

Inactive Date: Not reported

**CONTRA COSTA** Region:

Facility ID: 772164 Tier: Not reported Program Status: Hmmp Generator Fee Item: Inactive Date: 04/04/2011

CONTRA COSTA Region:

Facility ID: 772676 Tier: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**MILITARY FAMILY HOUSING (Continued)** 

S105022533

Program Status: Hmmp Generator Fee Item: No Inactive Date: 04/25/2011

G28 **CLYDE PRICE DBA CJ PRICE TRUCKING** RCRA-NonGen 1010314028 East 2800 E 18TH ST CAR000181172

1/8-1/4 ANTIOCH, CA 94509

0.155 mi.

Site 4 of 6 in cluster G 818 ft.

Relative:

RCRA-NonGen:

EPA ID:

Mailing address:

Higher

Date form received by agency: 02/16/2007

Facility name: CLYDE PRICE DBA CJ PRICE TRUCKING

Actual: 53 ft.

Facility address: 2800 E 18TH ST

> ANTIOCH, CA 94509 CAR000181172 4295 SUZANNE DR

PITTSBURG, CA 94565 Contact: **CLYDE J PRICE** 

4295 SUZANNE DR Contact address:

PITTSBURG, CA 94565

Contact country: US

Contact telephone: 925-432-2924

Contact email: 74CHEVY@COMCAST.NET

EPA Region:

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: **CLYDE J PRICE** Owner/operator address: Not reported

Not reported Not reported

Owner/operator country: Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/12/2007 Owner/Op end date: Not reported

**RUDY BLANCHETT** Owner/operator name: Owner/operator address: 93 S LAKE DR

ANTIOCH, CA 94509

US Owner/operator country:

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner 01/01/1974 Owner/Op start date: Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: Yes Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

CLYDE PRICE DBA CJ PRICE TRUCKING (Continued)

1010314028

Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Violation Status: No violations found

G29 **REDDING PETROLEUM INC** UST U003784167

**East** 2800 E 18TH ST **CONTRA COSTA CO. SITE LIST** N/A

1/8-1/4 ANTIOCH, CA 94509

0.155 mi.

818 ft. Site 5 of 6 in cluster G

UST: Relative:

Facility ID: Higher

744914 Latitude: 38.00495 Actual: -121.7665

53 ft.

Longitude:

CONTRA COSTA CO. SITE LIST:

**CONTRA COSTA** Region:

Facility ID: 744914 Tier: Not reported Program Status: UST, Hmmp

Generator Fee Item: Yes

Inactive Date: 01/04/2002

G30 **RHUDDAN BALNCHETT CA FID UST** 

**East** 2800 E 18TH ST 1/8-1/4 ANTIOCH, CA 94531 0.155 mi.

818 ft. Site 6 of 6 in cluster G

Relative: Higher

CA FID UST:

Facility ID: 07001405 Regulated By: UTNKA Actual: Regulated ID: Not reported 53 ft. Cortese Code: Not reported

Not reported SIC Code: 4157576564 Facility Phone: Not reported Mail To: Mailing Address: P O BOX Mailing Address 2: Not reported **ANTIOCH 94509** Mailing City, St, Zip: Contact: Not reported Contact Phone: Not reported DUNs Number: Not reported NPDES Number: Not reported EPA ID: Not reported Comments: Not reported Status: Active

SWEEPS UST:

S101581102

N/A

**SWEEPS UST** 

**HAZNET** 

**HWT** 

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **RHUDDAN BALNCHETT (Continued)**

S101581102

Status: Comp Number: 44914 Number:

Board Of Equalization: 44-002178 Ref Date: 01-29-92 Act Date: 01-29-92 Created Date: 07-22-88 Tank Status: Α Owner Tank Id:

Swrcb Tank Id: 07-000-044914-000001

Actv Date: 01-29-92 12000 Capacity: Tank Use: M.V. FUEL Stg: DIESEL Content: Number Of Tanks: 3

Status: Α Comp Number: 44914 Number: Board Of Equalization: 44-002178 Ref Date: 01-29-92 Act Date: 01-29-92 Created Date: 07-22-88 Tank Status: Α

Owner Tank Id: 2

07-000-044914-000002 Swrcb Tank Id:

Actv Date: 01-29-92 5000 Capacity: Tank Use: M.V. FUEL Stg:

Content: **REG UNLEADED** 

Number Of Tanks: Not reported

Α Status: Comp Number: 44914 Number:

Board Of Equalization: 44-002178 Ref Date: 01-29-92 Act Date: 01-29-92 07-22-88 Created Date: Tank Status: Α Owner Tank Id: 3

07-000-044914-000003 Swrcb Tank Id:

01-29-92 Actv Date: 1000 Capacity: Tank Use: M.V. FUEL

Stg:

**REG UNLEADED** Content: Number Of Tanks: Not reported

HAZNET:

Year: 2002

Gepaid: CAC002311121

JOHN HOLDERMAN- BIO CLEAN INC Contact:

Telephone: 9257799501 Mailing Name: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**RHUDDAN BALNCHETT (Continued)** 

S101581102

Mailing Address: 2800 E 18TH ST

ANTIOCH, CA 945310000 Mailing City, St, Zip:

Gen County: Contra Costa TSD EPA ID: Not reported TSD County: Contra Costa

Waste Category: Other empty containers 30 gallons or more

Disposal Method: R01 Tons: 3.00

Facility County: Not reported

HWT:

2443 Reg Num: Expiration Date: 05/31/2012

**GAYLORD CONTAINER CORPORATION NPDES** S104573835 H31

NNW 2301 WILBUR AVE **CONTRA COSTA CO. SITE LIST** N/A

1/8-1/4 ANTIOCH, CA 94509 **VCP** 0.155 mi. **ENF** 

Site 2 of 5 in cluster H 821 ft. H<sub>4</sub>7NFT **ENVIROSTOR** 

Relative:

NPDES: Lower

CAS000002 Npdes Number: Actual: Facility Status: Terminated 32 ft.

Agency Id:

Region: Not reported Regulatory Measure Id: 339079 2009-0009-DWQ Order No: Regulatory Measure Type: Enrollee Place Id: Not reported WDID: 5S07C350312 Program Type: Construction

Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 01/07/2008 Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: 06/24/2011

Forestar USA Real Estate Group Inc Discharge Name:

Discharge Address: 2301 Wilbur Ave Discharge City: Antioch Discharge State: California Discharge Zip: 94509

Npdes Number: CAS000001 Facility Status: Terminated

Agency Id:

Region: Not reported Regulatory Measure Id: 338972 Order No: 97-03-DWQ Regulatory Measure Type: Enrollee Place Id: Not reported WDID: 5S07I021388 Program Type: Industrial Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 01/03/2008

Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: 08/23/2010

Discharge Name: Forestar USA Real Estate Group Inc

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

Discharge Address: PO Box 10 Discharge City: Antioch Discharge State: California Discharge Zip: 94509

CONTRA COSTA CO. SITE LIST:

**CONTRA COSTA** Region:

716006 Facility ID: Tier: Not reported Program Status: HWG, Hmmp

Generator Fee Item: No

Inactive Date: Not reported

VCP:

Facility ID: 07260002

Site Type: Voluntary Cleanup Site Type Detail: Voluntary Cleanup Site Mgmt. Req.: NONE SPECIFIED

Acres: 27.7 National Priorities List: NO

SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY Cleanup Oversight Agencies:

Lead Agency: SMBRP

Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program

Project Manager: Katharine Hilf Supervisor: **Daniel Murphy** Division Branch: Cleanup Berkeley

Site Code: 201535 Assembly: 11 Senate: 07

Special Programs Code: Designation of Single Agency

Status: Certified Status Date: 06/29/2011 Restricted Use: NO

Responsible Party Funding: 38.01313 / -121.7762 Lat/Long: APN: 051-020-006-6, 051020006

MANUFACTURING - PAPER, MANUFACTURING - PAPER Past Use:

30018, 30024, 3002502 Potential COC: 30018,,,30024,3002502 Confirmed COC:

Potential Description: SOIL, SOIL Alias Name: WEST MILL Alias Type: Alternate Name Alias Name: 051-020-006-6 Alias Type: APN

Alias Name: 051020006 Alias Type: APN Alias Name: 110033619966

Alias Type: EPA (FRS#) Alias Name: 201535

Alias Type: Project Code (Site Code)

Alias Name: 07260002

**Envirostor ID Number** Alias Type:

Completed Info:

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

### **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2011

Comments: The Site Certification and Site Designation letters, certificates and

forms was signed and sent on June 29, 2011. There is no further work

required for this site for soil and groundwater.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: Held site conference pursuant to H&SC Section 25398.2.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Amendment - Order/Agreement

Completed Date: 08/14/2008

Comments: Existing Voluntary Cleanup Agreement amended to remove seven sites

that were certified and to change the Project Proponent to Forestar

(USA) Real Estate Group, Inc., the new property owner.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 10/14/2010

Comments: Signed after no comments received.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 08/24/2010

Comments: PEA by Arcadis, Response to Comments, and Addendum by PES was

approved.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Workplan

Completed Date: 03/16/2006

Comments: PEA Workplan approved with modifications

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 03/13/2006
Comments: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/19/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Public Participation Plan / Community Relations Plan

Completed Date: 10/25/2004

Comments: Public Participation Plan approved for nine Gaylord Mill and Non-Mill

properties in Antioch.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Completion Report

Completed Date: 01/19/2010

Comments: The two reports (by Arcadis and PES's Addendum Demolition Cluster 13)

were accepted with no comments for the above ground demolition completion report. The letter dated 01-12-10 was sent out on 01-19-10.

Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Characterization Workplan

Completed Date: 08/01/2007

Comments: Reviewed plans to ensure that the additional investigation activities

proposed were consistent with previous discussions with the consultant. It was consistent, therefore no comments provided and

work was conducted mid-August 2007.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 10/21/2010

Comments: The final RAW was approved on 10-14-2010. Work is to begin the week

of October 18th and is expected to be finished by November 19th. The approved RAW is for removal of 425 cubic yards of PCB contaminated

soil with offsite disposal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/20/2010

Comments: All Work completed in December 2010. There is no Final DTSC letter.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: \*Correspondence - Received

Completed Date: 07/14/2008 Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report approved. Groundwater monitoring will continue.

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/02/2008

Comments: Workplan approved with modifications and clarifications provided by

the consultant.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/07/2010

Comments: Public comment period September 8, 2010 to October 8, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/07/2010

Comments: Public comment period September 8, 2010 to October 8, 2010.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Action Completion Report

Completed Date: 06/14/2011

Comments: This report documents the final cleanup on the West Mill property for

PCBs. The Work was done in October and November 2010 with the final

report sent in March 2011. The site has been cleaned up to

unrestricted standards and will be certified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report approved. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report approved. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 01/31/2002

Comments: Phase I Environmental Site Assessment submitted once site entered

into the Voluntary Cleanup Program. Document reviewed as part of PEA

Workplan review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/08/2005

Comments: Demolition workplan to remove the west fuel oil pipeline and

collocated steam pipelines and the wet lab building formerly used to

test wastewater approved with modifications.

Completed Area Name: PROJECT WIDE

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

Completed Sub Area Name: Not reported Completed Document Type: Technical Workplan Completed Date: 11/19/2004

Comments: Workplan for demolition of the Secondary Waste Treatment Tank (UNOX),

> Secondary Clarifier East, Secondary Clarifier West; Noodle Pulp Handling Facility; and Storage Facility under Noodle Pulp Handling

Facility approved wih modifications.

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Technical Workplan Completed Date: 11/30/2004

Comments: Demolition Work Plan for the #4 Paper Machine Stock Storage Tanks, #4

> Paper Machine Silos, #4 Paper Machine Chemical Tanks, #4 Paper Machine Associated Above Ground Piping, and Secondary Fiber Conveyer

System approved with modifications.

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Technical Workplan Completed Date: 04/28/2005

Comments: Demolition workplan for removal of the Secondary Fiber Building

approved wth modifications.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Technical Workplan Completed Date: 07/19/2005

Comments: Demolition workplan for the B-Saveall & associated 30,000-gallon

> steel tank; Secondary Fiber Maintenance Office; Secondary Fiber Polymer Building; Secondary Fiber Outside Storage Area; Formre Tank Pads; and Two remaining tanks (TK-71 & TK-72) and tank pads approved

with modifications.

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Technical Workplan Completed Document Type: Completed Date:

Comments: Demolition workplan for removal of the No. 4 Paper Machine Building,

the Paper Storage and Shipping Building, and the Truck Loading Area

approved with modifications.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Technical Workplan Completed Date: 09/14/2006

Comments: Demolition workplan for removal of the steam power plant approved

with modifications.

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Technical Workplan Completed Date: 01/02/2007

Comments: Approval of workplan for demolition of a hydraulic lift unit located

near other Cluster #12 structures previously approved for demolition.

Completed Area Name: PROJECT WIDE

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/02/2006

Comments: Workplan modification to revise the demolition technique for the

Equalization Pond outlined in the Cluster #12 Demolition Work Plan.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Supplemental Site Investigation Workplan

Completed Date: 09/22/2006

Comments: Workplan for additional characterization approved with modifications.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Supplemental Site Investigation Workplan

Completed Date: 03/06/2007

Comments: Workplan approved for implementation during discussion with

consultant.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan

Completed Date: 04/24/2009

Comments: Letter sent out approving the changes to the groundwater monitoring program proposed in the 4/16/2009 memorandum from PES Environmental.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 03/23/2009

Comments: Health and Safety Plan reviewed to ensure it covers appropriate site,

planned activities and chemicals of concern, then placed in file.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report approved. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/26/2010

Comments: Letter to finalize the 2009- 2010 quarterly reports with no further

comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/17/2010

Comments: Letter to finalize the 2009- 2010 quarterly reports with no further

comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/26/2010

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Comments: Letter to finalize the 2009- 2010 quarterly reports with no further

comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/26/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/26/2010

Comments: Letter to finalize the 2009- 2010 quarterly reports with no further

comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2011

Comments: Third Quarter report was approved with the Fourth Quarter report on

June 14, 2011. No further groundwater sampling is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/14/2011

Comments: Third Quarter report was approved with the Fourth Quarter report on

June 14, 2011. No further groundwater sampling is required.

Future Area Name: Not reported Future Sub Area Name: Not reported Future Document Type: Not reported Future Due Date: Not reported Not reported Schedule Area Name: Not reported Schedule Sub Area Name: Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

ENF:

Region: 5S Facility ld: 205918

Agency Name: Gaylord Container Corp

Place Type: Facility
Place Subtype: Not reported
Facility Type: Industrial

Agency Type: Privately-Owned Business

# Of Agencies:

 Place Latitude:
 38.012304

 Place Longitude:
 -121.77522

 SIC Code 1:
 2631

SIC Desc 1: Paperboard Mills
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
Not reported

Map ID Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported # Of Places:

Source Of Facility: Reg Meas Design Flow: 15 Threat To Water Quality: 2 Complexity:

Pretreatment: N - POTW does not have EPA approved pretreatment prog.

Facility Waste Type: Designated process waste

Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported Facility Waste Type 4: Not reported Program: **NPDES** 

# Of Programs:

WDID: 5B072039001 Reg Measure Id: 146582 Reg Measure Type: **NPDES Permits** 

Region: 5S Order #: 97-027 Npdes# CA#: CA0004847 Major-Minor: Major

Npdes Type: OTH Reclamation: N - No Dredge Fill Fee: Not reported 301H:

Application Fee Amt Received: Not reported Historical Status: Status Date: 02/28/1997 Effective Date: 02/28/1997 Expiration/Review Date: 02/01/2002

04/24/2003 Termination Date: Not reported WDR Review - Amend: WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported

Status Enrollee: Ν Individual/General:

Fee Code: Not reported Direction/Voice: Passive 231197 Enforcement Id(EID): Region: 5S

Order / Resolution Number: Not reported Notice of Violation Enforcement Action Type: Effective Date: 07/25/2000 07/25/2000 Adoption/Issuance Date: Achieve Date: Not reported 07/25/2000 Termination Date: ACL Issuance Date: Not reported **EPL Issuance Date:** Not reported Status: Historical

Title: NOV 07/25/2000 for Gaylord Container Corp, ANTIOCH PULP & PAPER MILL

Map ID Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

### **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

Description: NOV sent with inspection report on 25 July 2000 addressing findings

and corrective action.

Program: NPDES
Latest Milestone Completion Date: Not reported

# Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

Region: 5S Facility Id: 205918

Agency Name: Gaylord Container Corp

Place Type: Facility
Place Subtype: Not reported
Facility Type: Industrial

Agency Type: Privately-Owned Business

# Of Agencies:

Place Latitude: 38.012304
Place Longitude: -121.77522

SIC Code 1: 2631

SIC Desc 1: Paperboard Mills SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported

# Of Places:

Source Of Facility: Reg Meas
Design Flow: 15
Threat To Water Quality: 2
Complexity: A

Pretreatment: N - POTW does not have EPA approved pretreatment prog.

Facility Waste Type: Designated process waste

Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDES
# Of Programs: 1

 WDID:
 5B072039001

 Reg Measure Id:
 146582

 Reg Measure Type:
 NPDES Permits

 Region:
 5S

 Order #:
 97-027

 Npdes# CA#:
 CA0004847

 Major-Minor:
 Major

 Npdes Type:
 OTH

 Reclamation:
 N - No

 Dredge Fill Fee:
 Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

301H: Ν

Application Fee Amt Received: Not reported Status: Historical Status Date: 02/28/1997 Effective Date: 02/28/1997 Expiration/Review Date: 02/01/2002 04/24/2003 Termination Date: WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported

Status Enrollee: Individual/General:

Fee Code: Not reported Direction/Voice: Passive Enforcement Id(EID): 246529 Region: 5S

Order / Resolution Number: R5-2002-0509 Enforcement Action Type: Admin Civil Liability

Effective Date: 07/10/2002 Adoption/Issuance Date: Not reported Achieve Date: Not reported Not reported Termination Date: ACL Issuance Date: Not reported **EPL Issuance Date:** Not reported Status: Historical

MMPC R5-2002-0509 for Gaylord Container Corp, Antioch Pulp & Paper Mill Title: MMP Complaint of \$6,000 issued for Mandatory minimum penalties for Description:

violations of effluent limits in Order No. 97-027. 2 serious

violations.

Program: **NPDES** Latest Milestone Completion Date: 07/10/2003

# Of Programs1: **Total Assessment Amount:** 6000 Initial Assessed Amount: Liability \$ Amount: 6000 Project \$ Amount: 0 Liability \$ Paid: 6000 Project \$ Completed: 0 Total \$ Paid/Completed Amount: 6000

5S Region: Facility Id: 205918

Agency Name: **Gaylord Container Corp** 

Place Type: Facility Place Subtype: Not reported Facility Type: Industrial

Agency Type: Privately-Owned Business

# Of Agencies:

Place Latitude: 38.012304 Place Longitude: -121.77522 SIC Code 1: 2631

SIC Desc 1: Paperboard Mills SIC Code 2: Not reported SIC Desc 2: Not reported

Map ID Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported

# Of Places:

Source Of Facility: Reg Meas
Design Flow: 15
Threat To Water Quality: 2
Complexity: A

Pretreatment: N - POTW does not have EPA approved pretreatment prog.

Facility Waste Type: Designated process waste

Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDES

# Of Programs:

WDID: 58072039001 Reg Measure Id: 146582

Reg Measure Type: NPDES Permits

 Region:
 5S

 Order #:
 97-027

 Npdes# CA#:
 CA0004847

 Major-Minor:
 Major

 Npdes Type:
 OTH

 Reclamation:
 N - No

 Dredge Fill Fee:
 Not reported

301H: N

Application Fee Amt Received: Not reported Status: Historical Status Date: 02/28/1997 02/28/1997 Effective Date: Expiration/Review Date: 02/01/2002 04/24/2003 Termination Date: WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported

Status Enrollee: N Individual/General: I

Fee Code:
Direction/Voice:
Enforcement Id(EID):
Region:

Not reported
Passive
232399
55

Order / Resolution Number: Not reported

Enforcement Action Type: Oral Communication

Effective Date: 05/10/2000
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 05/10/2000
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

Status: Historical

Title: VER 05/10/2000 for Gaylord Container Corp, Antioch Pulp & Paper Mill Discussed with Diane Hogan 1 May 2000: corrective action, engineering Description:

study of surge basin, and need for additional capacity (will provide

additional information).

**NPDES** Program: Latest Milestone Completion Date: Not reported

# Of Programs1: **Total Assessment Amount:** 0 Initial Assessed Amount: 0 Liability \$ Amount: 0 Project \$ Amount: 0 Liability \$ Paid: 0 Project \$ Completed: 0 Total \$ Paid/Completed Amount: 0

5S Region: 205918 Facility Id:

**Gaylord Container Corp** Agency Name:

Facility Place Type: Place Subtype: Not reported Facility Type: Industrial

Agency Type: Privately-Owned Business

# Of Agencies:

38.012304 Place Latitude: Place Longitude: -121.77522 SIC Code 1: 2631

SIC Desc 1: Paperboard Mills SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported

# Of Places:

Source Of Facility: Reg Meas Design Flow: 15 Threat To Water Quality: 2 Complexity:

Pretreatment: N - POTW does not have EPA approved pretreatment prog.

Facility Waste Type: Designated process waste

Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported Facility Waste Type 4: Not reported NPDES Program:

# Of Programs:

5B072039001 WDID: Reg Measure Id: 140457 **NPDES Permits** Reg Measure Type:

Region: 5S Order #: 84-015 Npdes# CA#: CA0004847 Major-Minor: Major

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Npdes Type:OTHReclamation:N - NoDredge Fill Fee:Not reported

301H: Application Fee Amt Received: Not reported Historical Status: Status Date: 01/20/1984 01/20/1984 Effective Date: Expiration/Review Date: 09/01/1990 Termination Date: Not reported WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported Not reported WDR Review - Rescind: WDR Review - No Action Required: Not reported Not reported WDR Review - Pending: WDR Review - Planned: Not reported

Status Enrollee: N Individual/General: I

Fee Code:

Direction/Voice:

Enforcement Id(EID):

Region:

Not reported
Passive
223810
55

Order / Resolution Number:
Enforcement Action Type:
Effective Date:
Admin Civil Liability
Effective Date:
O8/16/1989
Adoption/Issuance Date:
Achieve Date:
Not reported
Termination Date:
11/08/1989
ACL Issuance Date:
Not reported

EPL Issuance Date: Not reported Status: Historical

Title: ACLC R5-1989-0514 for Gaylord Container Corp, Antioch Pulp & Paper Mill Description: \$50000 ACL FOR BOD VIOLATIONS IN DISCH TO SAN JOAQUIN RIVER. EO

Reduced amount to \$40,000.

Program: NPDES
Latest Milestone Completion Date: Not reported

# Of Programs1: 1
Total Assessment Amount: 40000
Initial Assessed Amount: 50000
Liability \$ Amount: 40000
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

Region: 5S Facility Id: 205918

Agency Name: Gaylord Container Corp

Place Type: Facility
Place Subtype: Not reported
Facility Type: Industrial

Agency Type: Privately-Owned Business

# Of Agencies:

 Place Latitude:
 38.012304

 Place Longitude:
 -121.77522

 SIC Code 1:
 2631

SIC Desc 1: Paperboard Mills

Map ID Direction Distance Elevation

Site Database(s) **EPA ID Number** 

# **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported

# Of Places:

Source Of Facility: Reg Meas Design Flow: 15 Threat To Water Quality: 2 Complexity:

Pretreatment: N - POTW does not have EPA approved pretreatment prog.

Facility Waste Type: Designated process waste

Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported Facility Waste Type 4: Not reported Program: **NPDES** # Of Programs:

WDID: 5B072039001 Reg Measure Id: 132383 Reg Measure Type: **NPDES Permits** 

Region: 5S

Order #: R5-2003-0073 Npdes# CA#: CA0004847 Major-Minor: Major Npdes Type: OTH Reclamation: N - No Dredge Fill Fee: Not reported

301H:

Application Fee Amt Received: Not reported Historical Status: 06/23/2006 Status Date: Effective Date: 04/25/2003 Expiration/Review Date: 04/01/2008 Termination Date: 06/22/2006 WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported Not reported WDR Review - Rescind: WDR Review - No Action Required: Not reported Not reported WDR Review - Pending:

Not reported Status Enrollee: Ν Individual/General:

WDR Review - Planned:

66 - NPDES Based on Flow Fee Code:

Direction/Voice: **Passive** 324895 Enforcement Id(EID): Region: 5S

Order / Resolution Number: R5-2007-0506 Admin Civil Liability Enforcement Action Type: Effective Date: 03/21/2007

Adoption/Issuance Date: Not reported Not reported Achieve Date: Termination Date: 04/09/2007

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

ACL Issuance Date: 03/21/2007
EPL Issuance Date: Not reported
Status: Historical

Title: MMPC R5-2007-0506 for Gaylord Container Corp

Description: MMP Complaint issued in the amount of \$48,000 for failure to comply

with effluent limitations. Discharger committed 5 serious violations and 11 non-serious violations from 12/1/01 to 3/31/06. Discharger paid

48,000 to CAA on 4/10/07.

Program: NPDES Latest Milestone Completion Date: 04/09/2007

# Of Programs1:

Total Assessment Amount:

Initial Assessed Amount:

48000
Liability \$ Amount:

48000
Project \$ Amount:

0
Liability \$ Paid:

48000
Project \$ Completed:

0
Total \$ Paid/Completed Amount:

48000

Region: 5S Facility Id: 205918

Agency Name: Gaylord Container Corp

Place Type: Facility
Place Subtype: Not reported
Facility Type: Industrial

Agency Type: Privately-Owned Business

# Of Agencies:

 Place Latitude:
 38.012304

 Place Longitude:
 -121.77522

 SIC Code 1:
 2631

SIC Desc 1: Paperboard Mills SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported # Of Places:

Source Of Facility: Reg Meas
Design Flow: 15
Threat To Water Quality: 2
Complexity: A

Pretreatment: N - POTW does not have EPA approved pretreatment prog.

Facility Waste Type: Designated process waste

Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDES
# Of Programs: 1

WDID: 5B072039001
Reg Measure Id: 132383
Reg Measure Type: NPDES Permits

Region: 5S

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

 Order #:
 R5-2003-0073

 Npdes# CA#:
 CA0004847

 Major-Minor:
 Major

 Npdes Type:
 OTH

 Reclamation:
 N - No

 Dredge Fill Fee:
 Not reported

 301H:
 N

Application Fee Amt Received: Not reported Status: Historical Status Date: 06/23/2006 Effective Date: 04/25/2003 Expiration/Review Date: 04/01/2008 06/22/2006 Termination Date: WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported

Status Enrollee: N Individual/General: I

Fee Code: 66 - NPDES Based on Flow

Direction/Voice: Passive
Enforcement Id(EID): 253009
Region: 5S

Order / Resolution Number: Not reported
Enforcement Action Type: Oral Communication

Effective Date: 08/18/2004
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 08/18/2004
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical

Title: OC 08/18/2004 for Antioch Pulp & Paper Mill

Description: Discussed with consultant for discharger NIcholas Loizeaux and

Facility Mngr Henry Thatcher regarding violations of the Al and Fe effluent limitations in May and the Al and copper violations in June

and possiblecorrective action needed.

Program: NPDES
Latest Milestone Completion Date: Not reported

# Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

 Region:
 5S

 Facility Id:
 205918

Agency Name: Gaylord Container Corp

Place Type: Facility
Place Subtype: Not reported
Facility Type: Industrial

Agency Type: Privately-Owned Business

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

# Of Agencies:

Place Latitude: 38.012304 Place Longitude: -121.77522 SIC Code 1: 2631

SIC Desc 1: Paperboard Mills SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported Not reported NAICS Code 2: NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported

# Of Places: Source Of Facility: Reg Meas Design Flow: 15

Threat To Water Quality: Complexity: Α

Pretreatment: N - POTW does not have EPA approved pretreatment prog.

Facility Waste Type: Designated process waste

Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported Facility Waste Type 4: Not reported Program: **NPDES** # Of Programs:

WDID: 5B072039001 Reg Measure Id: 132383

**NPDES Permits** Reg Measure Type:

Region: 5S

Order #: R5-2003-0073 Npdes# CA#: CA0004847 Major-Minor: Major OTH Npdes Type: Reclamation: N - No Dredge Fill Fee: Not reported

301H:

Application Fee Amt Received: Not reported Status: Historical Status Date: 06/23/2006 Effective Date: 04/25/2003 Expiration/Review Date: 04/01/2008 06/22/2006 Termination Date: Not reported WDR Review - Amend: WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported Status Enrollee: Ν Individual/General:

66 - NPDES Based on Flow Fee Code:

Direction/Voice: Passive Enforcement Id(EID): 252740 5S Region:

Order / Resolution Number: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Enforcement Action Type: Oral Communication

Effective Date: 09/07/2004

Adoption/Issuance Date: Not reported

Achieve Date: Not reported

Termination Date: 09/07/2004

ACL Issuance Date: Not reported

EPL Issuance Date: Not reported

Status: Historical

Title: OC 09/07/2004 for Antioch Pulp & Paper Mill

Description: Discussed with consultant, legal counsel and Facility Mngr Henry

Thatcher regarding violations of the AI, Fe, Cu, Pb and Mn effluent limitations in July and that the problem may have been solved after

changing sample port line.

Program: NPDES

Latest Milestone Completion Date: Not reported

# Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

HAZNET:

Year: 2008

Gepaid: CAD009148180

Contact: HENRY THATCHER, SITE MANAGER

Telephone: 9257793207 Mailing Name: Not reported

Mailing Address: 2301 WILBUR AVENUE
Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa
TSD EPA ID: CAT080013352
TSD County: Los Angeles

Waste Category: Waste oil and mixed oil

Disposal Method: OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION,

ORGANICS RECOVERY ECT

Tons: 0.57

Facility County: Contra Costa

Year: 2007

Gepaid: CAD009148180

Contact: HENRY THATCHER, SITE MANAGER

Telephone: 9257793207 Mailing Name: Not reported

Mailing Address: 2301 WILBUR AVENUE
Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa
TSD EPA ID: CAD009466392
TSD County: Contra Costa

Waste Category: Other empty containers 30 gallons or more

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.5

Facility County: Contra Costa

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

Year: 2007

Gepaid: CAD009148180

Contact: HENRY THATCHER, SITE MANAGER

Telephone: 9257793207 Mailing Name: Not reported

Mailing Address: 2301 WILBUR AVENUE Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa TSD EPA ID: CAD059494310 TSD County: Santa Clara

Waste Category: Unspecified aqueous solution

DISCHARGE TO SEWER/POTW OR NPDES(WITH PRIOR STORAGE--WITH OR WITHOUT Disposal Method:

TREATMENT)

Tons: 0.25

Facility County: Contra Costa

2007 Year:

Gepaid: CAD009148180

Contact: HENRY THATCHER, SITE MANAGER

Telephone: 9257793207 Mailing Name: Not reported

Mailing Address: 2301 WILBUR AVENUE Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa TSD EPA ID: CAD059494310 TSD County: Santa Clara

Waste Category: Waste oil and mixed oil

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.2

Facility County: Contra Costa

2007 Year:

Gepaid: CAD009148180

HENRY THATCHER, SITE MANAGER Contact:

Telephone: 9257793207 Mailing Name: Not reported

Mailing Address: 2301 WILBUR AVENUE Mailing City, St, Zip: ANTIOCH, CA 945090000

Gen County: Contra Costa TSD EPA ID: CAD059494310 TSD County: Santa Clara

Waste Category: Other inorganic solid waste

STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY Disposal Method:

(H010-H129) OR (H131-H135)

Tons: 0.4

Facility County: Contra Costa

> Click this hyperlink while viewing on your computer to access 191 additional CA HAZNET: record(s) in the EDR Site Report.

**ENVIROSTOR:** 

Voluntary Cleanup Site Type: Site Type Detailed: Voluntary Cleanup

Acres: 27.7 NPL:

SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY Regulatory Agencies:

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Lead Agency: **SMBRP** Program Manager: Katharine Hilf Supervisor: **Daniel Murphy** Division Branch: Cleanup Berkeley Facility ID: 07260002 201535 Site Code: Assembly: 11

07 Special Program: Designation of Single Agency

Status: Certified Status Date: 06/29/2011 Restricted Use: NO

Senate:

NONE SPECIFIED Site Mgmt. Req.: Funding: Responsible Party

Latitude: 38.01313 Longitude: -121.7762

APN: 051-020-006-6, 051020006

MANUFACTURING - PAPER, MANUFACTURING - PAPER Past Use:

Potential COC: 30018, 30024, 3002502 Confirmed COC: 30018,,,30024,3002502

Potential Description: SOIL, SOIL Alias Name: WEST MILL Alternate Name Alias Type: Alias Name: 051-020-006-6 Alias Type: APN Alias Name: 051020006 Alias Type: APN Alias Name: 110033619966 Alias Type: EPA (FRS #)

Alias Type: Project Code (Site Code)

201535

Alias Name: 07260002

Alias Type: **Envirostor ID Number** 

Completed Info:

Alias Name:

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Completed Date: 12/30/2003

Voluntary Environmental Oversight Agreement Docket No. HSA-A Comments:

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill.

Completed Area Name: **PROJECT WIDE** Completed Sub Area Name: Not reported Completed Document Type: Certification Completed Date: 06/29/2011

Comments: The Site Certification and Site Designation letters, certificates and

forms was signed and sent on June 29, 2011. There is no further work

required for this site for soil and groundwater.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: Held site conference pursuant to H&SC Section 25398.2.

PROJECT WIDE Completed Area Name:

Direction Distance

Elevation Site Database(s) EPA ID Number

### **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Amendment - Order/Agreement

Completed Date: 08/14/2008

Comments: Existing Voluntary Cleanup Agreement amended to remove seven sites

that were certified and to change the Project Proponent to Forestar

(USA) Real Estate Group, Inc., the new property owner.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 10/14/2010

Comments: Signed after no comments received.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 08/24/2010

Comments: PEA by Arcadis, Response to Comments, and Addendum by PES was

approved.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Workplan

Completed Date: 03/16/2006

Comments: PEA Workplan approved with modifications

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 03/13/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/19/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Public Participation Plan / Community Relations Plan

Completed Date: 10/25/2004

Comments: Public Participation Plan approved for nine Gaylord Mill and Non-Mill

properties in Antioch.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Completion Report

Completed Date: 01/19/2010

Comments: The two reports (by Arcadis and PES's Addendum Demolition Cluster 13)

were accepted with no comments for the above ground demolition

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

completion report. The letter dated 01-12-10 was sent out on 01-19-10.

Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Characterization Workplan

Completed Date: 08/01/2007

Comments: Reviewed plans to ensure that the additional investigation activities

proposed were consistent with previous discussions with the consultant. It was consistent, therefore no comments provided and

work was conducted mid-August 2007.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 10/21/2010

Comments: The final RAW was approved on 10-14-2010. Work is to begin the week

of October 18th and is expected to be finished by November 19th. The approved RAW is for removal of 425 cubic yards of PCB contaminated

soil with offsite disposal.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/20/2010

Comments: All Work completed in December 2010. There is no Final DTSC letter.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: \*Correspondence - Received

Completed Date: 07/14/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report approved. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan

Completed Date: 07/02/2008

Comments: Workplan approved with modifications and clarifications provided by

the consultant.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/07/2010

Comments: Public comment period September 8, 2010 to October 8, 2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/07/2010

Comments: Public comment period September 8, 2010 to October 8, 2010.

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Action Completion Report

Completed Date: 06/14/2011

Comments: This report documents the final cleanup on the West Mill property for

PCBs. The Work was done in October and November 2010 with the final

report sent in March 2011. The site has been cleaned up to

unrestricted standards and will be certified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report approved. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report approved. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 01/31/2002

Comments: Phase I Environmental Site Assessment submitted once site entered

into the Voluntary Cleanup Program. Document reviewed as part of PEA

Workplan review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/08/2005

Comments: Demolition workplan to remove the west fuel oil pipeline and

collocated steam pipelines and the wet lab building formerly used to

test wastewater approved with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 11/19/2004

Comments: Workplan for demolition of the Secondary Waste Treatment Tank (UNOX),

Secondary Clarifier East, Secondary Clarifier West; Noodle Pulp Handling Facility; and Storage Facility under Noodle Pulp Handling

Facility approved wih modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 11/30/2004

Comments: Demolition Work Plan for the #4 Paper Machine Stock Storage Tanks, #4

Paper Machine Silos, #4 Paper Machine Chemical Tanks, #4 Paper Machine Associated Above Ground Piping, and Secondary Fiber Conveyer

System approved with modifications.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

### **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Completed Document Type: Technical Workplan

Completed Date: 04/28/2005

Comments: Demolition workplan for removal of the Secondary Fiber Building

approved wth modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/19/2005

Comments: Demolition workplan for the B-Saveall & associated 30,000-gallon

steel tank; Secondary Fiber Maintenance Office; Secondary Fiber Polymer Building; Secondary Fiber Outside Storage Area; Formre Tank Pads; and Two remaining tanks (TK-71 & TK-72) and tank pads approved

with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 12/20/2005

Comments: Demolition workplan for removal of the No. 4 Paper Machine Building,

the Paper Storage and Shipping Building, and the Truck Loading Area

approved with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/14/2006

Comments: Demolition workplan for removal of the steam power plant approved

with modifications.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/02/2007

Comments: Approval of workplan for demolition of a hydraulic lift unit located

near other Cluster #12 structures previously approved for demolition.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 10/02/2006

Comments: Workplan modification to revise the demolition technique for the

Equalization Pond outlined in the Cluster #12 Demolition Work Plan.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Supplemental Site Investigation Workplan

Completed Date: 09/22/2006

Comments: Workplan for additional characterization approved with modifications.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Supplemental Site Investigation Workplan

Completed Date: 03/06/2007

Comments: Workplan approved for implementation during discussion with

consultant.

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

**EDR ID Number** 

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/24/2009

Comments: Letter sent out approving the changes to the groundwater monitoring

program proposed in the 4/16/2009 memorandum from PES Environmental.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan

Completed Date: 03/23/2009

Comments: Health and Safety Plan reviewed to ensure it covers appropriate site,

planned activities and chemicals of concern, then placed in file.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2009

Comments: Report approved. Groundwater monitoring will continue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

Completed Date: 10/26/2010

Comments: Letter to finalize the 2009- 2010 quarterly reports with no further

comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/17/2010

Comments: Letter to finalize the 2009- 2010 quarterly reports with no further

comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/26/2010

Comments: Letter to finalize the 2009- 2010 quarterly reports with no further

comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/26/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/26/2010

Comments: Letter to finalize the 2009- 2010 quarterly reports with no further

comments from DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **GAYLORD CONTAINER CORPORATION (Continued)**

S104573835

Completed Date: 06/14/2011

Comments: Third Quarter report was approved with the Fourth Quarter report on

June 14, 2011. No further groundwater sampling is required.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Monitoring Report Completed Date: 06/14/2011

Comments: Third Quarter report was approved with the Fourth Quarter report on

June 14, 2011. No further groundwater sampling is required.

Future Area Name: Not reported Future Sub Area Name: Not reported Future Document Type: Not reported Future Due Date: Not reported Schedule Area Name: Not reported Not reported Schedule Sub Area Name: Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

H32 FORESTAR USA REAL ESTATE GROUP INC

NNW 2301 WILBUR AVE ANTIOCH, CA 94509 1/8-1/4

CA FID UST S101581190 **SWEEPS UST** N/A **HAZNET** 

0.155 mi. 821 ft.

Site 3 of 5 in cluster H

CA FID UST: Relative:

Lower Actual:

32 ft.

Facility ID: 07001626 Regulated By: UTNKA Regulated ID: Not reported Cortese Code: Not reported SIC Code: Not reported Facility Phone: 4157574640 Mail To: Not reported

Mailing Address: P O BOX Mailing Address 2: Not reported ANTIOCH 94509 Mailing City, St, Zip: Not reported Contact: Not reported Contact Phone: **DUNs Number:** Not reported NPDES Number: Not reported EPA ID: Not reported Not reported Comments: Status: Active

SWEEPS UST:

Status: Α Comp Number: 71211 Number:

Not reported Board Of Equalization: 02-04-92 Ref Date: Act Date: 02-04-92 11-21-90 Created Date: Tank Status: Α

Owner Tank Id: 07-000-071211-000001 Swrcb Tank Id:

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

## FORESTAR USA REAL ESTATE GROUP INC (Continued)

S101581190

**EDR ID Number** 

 Actv Date:
 02-04-92

 Capacity:
 1000

 Tank Use:
 M.V. FUEL

 Stg:
 P

Content: REG UNLEADED

Number Of Tanks: 1

HAZNET:

Year: 2010

Gepaid: CAL000328225
Contact: HENRYTHATCHER
Telephone: 9257793207
Mailing Name: Not reported
Mailing Address: PO BOX 10

Mailing City, St, Zip: ANTIOCH, CA 945090901

Gen County: Not reported
TSD EPA ID: NVT33001000
TSD County: Not reported

Waste Category: Contaminated soil from site clean-up

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL (TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 21.24 Facility County: Contra Costa

Year: 2010

Gepaid: CAL000328225
Contact: HENRYTHATCHER
Telephone: 9257793207
Mailing Name: Not reported
Mailing Address: PO BOX 10

Mailing City, St, Zip: ANTIOCH, CA 945090901

Gen County: Not reported
TSD EPA ID: NVT33001000
TSD County: Not reported

Waste Category: Contaminated soil from site clean-up

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL (TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 21.24 Facility County: Contra Costa

Year: 2010

Gepaid: CAL000328225
Contact: HENRYTHATCHER
Telephone: 9257793207
Mailing Name: Not reported
Mailing Address: PO BOX 10

Mailing City, St, Zip: ANTIOCH, CA 945090901

Gen County: Not reported
TSD EPA ID: NVT33001000
TSD County: Not reported

Waste Category: Contaminated soil from site clean-up

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL (TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 21.24 Facility County: Contra Costa

Year: 2010

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## FORESTAR USA REAL ESTATE GROUP INC (Continued)

S101581190

Gepaid: CAL000328225 Contact: **HENRYTHATCHER** Telephone: 9257793207 Mailing Name: Not reported Mailing Address: PO BOX 10

Mailing City, St, Zip: ANTIOCH, CA 945090901

Gen County: Not reported TSD EPA ID: NVT33001000 TSD County: Not reported

Waste Category: Contaminated soil from site clean-up

LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO Disposal Method:

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 21.24 Facility County: Contra Costa

Year: 2010

Gepaid: CAL000328225 Contact: **HENRYTHATCHER** Telephone: 9257793207 Mailing Name: Not reported Mailing Address: PO BOX 10

Mailing City, St, Zip: ANTIOCH, CA 945090901

Gen County: Not reported TSD EPA ID: CAD028409019 TSD County: Not reported

Waste Category: Unspecified solvent mixture

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.0025 Facility County: Contra Costa

> Click this hyperlink while viewing on your computer to access 17 additional CA\_HAZNET: record(s) in the EDR Site Report.

H33 **GAYLORD CONTAINER CORPORATION** 

**CERC-NFRAP** 1000290838 NNW 2301 WILBUR AVENUE RCRA-SQG CAD009148180 ANTIOCH, CA 94509 **PADS** 1/8-1/4

0.155 mi.

Lower

Actual:

Site 4 of 5 in cluster H 821 ft.

CERC-NFRAP: Relative:

Site ID: 0901170

Federal Facility: Not a Federal Facility Not on the NPL NPL Status:

32 ft. Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 13051304.00000 Person ID: 9271184.00000

Contact Sequence ID: 13285576.00000 Person ID: 13003854.00000

Contact Sequence ID: 13291171.00000 Person ID: 13003858.00000

Contact Sequence ID: 13297029.00000 **WDS** 

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

1000290838

**EDR ID Number** 

Person ID: 13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: CROWN ZELLERBACH INC FLEXIBLE PKG DIV

Alias Address: Not reported

CA

Alias Name: BLACK LIQUOR POND

Alias Address: Not reported

CA

Alias Name: BLACK SEA Alias Address: Not reported

CA

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 12/01/1979
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 04/01/1985
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT

Date Started: Not reported
Date Completed: 04/01/1985

Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:

Date form received by agency: 03/26/2004

Facility name: GAYLORD CONTAINER CORPORATION

Facility address: 2301 WILBUR AVENUE
ANTIOCH, CA 94509
EPA ID: CAD009148180
Mailing address: P.O. BOX 10

ANTIOCH, CA 94509

Contact: HENRY THATCHER

Contact address: Not reported

Not reported
Contact country: Not reported
Contact telephone: (925) 779-3207

Contact email: HTHATCH@ICCNET.COM

EPA Region: 09 Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GAYLORD CONTAINER CORPORATION (Continued)**

1000290838

**EDR ID Number** 

Owner/operator name: GAYLORD CONTAINER CORPORATION

Owner/operator address: Not reported

Not reported

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/1986 Owner/Op end date: Not reported

Owner/operator name: TEMPLE-INLAND CORPORATION

Owner/operator address: P.O. BOX 10

ANTIOCH, CA 94509

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/01/2002
Owner/Op end date: Not reported

#### Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: Nο User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

# Historical Generators:

Date form received by agency: 03/26/2004

Facility name: GAYLORD CONTAINER CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/13/1998

Facility name: GAYLORD CONTAINER CORPORATION

Site name: GAYLORD CONTAINER
Classification: Small Quantity Generator

Date form received by agency: 10/27/1986

Facility name: GAYLORD CONTAINER CORPORATION

Site name: GAYLORD CONTAINER

Classification: Conditionally Exempt Small Quantity Generator

# Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS

Direction Distance

**EDR ID Number** Elevation **EPA ID Number** Site Database(s)

#### **GAYLORD CONTAINER CORPORATION (Continued)**

1000290838

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

> CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D006 **CADMIUM** Waste name:

Waste code: D009 Waste name: **MERCURY** 

Waste code: D011 Waste name: SILVER

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

F004 Waste code:

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC

> ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING. BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE

SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

F005 Waste code:

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: Not reported Area of violation: Generators - General

Date violation determined: 12/06/1991

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

1000290838

**EDR ID Number** 

Date achieved compliance: 03/03/1992

Violation lead agency: EPA

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 12/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

**Evaluation Action Summary:** 

Evaluation date: 09/18/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 09/18/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 03/03/1992 Evaluation lead agency: EPA

PADS:

EPAID: CAD009148180
Facility name: GAYLORD CONTAINER

Facility Address: 2301 WILBUR AVE

ANTIOCH, CA 94509 US

Generator: Yes
Storer: No
Transporter: No
Disposer: No
Research facility: No
Smelter: No

Facility owner name: GAYLORD CONTAINER CORP.

Contact title: Not reported
Contact name: HOGAN, DIANA J.
Contact tel: (925)779-3200
Contact extension: Not reported
Mailing address: PO BOX 10

ANTIOCH, CA 94509

Mailing country: US

Cert. title: Not reported
Cert. name: Not reported
Cert. date: 12/7/1998
Date received: 4/24/1999

CA WDS:

Facility ID: Sacramento-San Joaquin Delta 072039001

Facility Type: Industrial - Facility that treats and/or disposes of liquid or

semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

pumping.

Direction Distance

Elevation Site Database(s) EPA ID Number

## **GAYLORD CONTAINER CORPORATION (Continued)**

1000290838

**EDR ID Number** 

Facility Status: Active - Any facility with a continuous or seasonal discharge that is

under Waste Discharge Requirements.

NPDES Number: Not reported

Subregion:

Facility Telephone: 9257793200 Facility Contact: DIANA HOGAN

Agency Name: GAYLORD CONTAINER CORPORATION

Agency Address: 2301 WILBUR AVE
Agency City,St,Zip: ANTIOCH 94509
Agency Contact: HENRY THATCHER

Agency Telephone: 9257793200
Agency Type: Private
SIC Code: 2631
SIC Code 2: Not reported

Primary Waste: Process Waste (Waste produced as part of the industrial/manufacturing

process)

Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to

water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Secondary Waste: Not reported Secondary Waste Type: Not reported

Design Flow: 15 Baseline Flow: 12

Reclamation: No reclamation requirements associated with this facility.

POTW: The POTW Does not have an approved pretreatment program. Some POTWs

may have local pretreatment programs that have not been approved by

the regional board and/or EPA.

Treat To Water: Moderate Threat to Water Quality. A violation could have a major

adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance

from a waste treatment facility.

Complexity: Category A - Any major NPDES facility, any non-NPDES facility

(particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility

(particularly those with toxicwastes) with numerous discharge points,

leak detection systems or ground water monitoring wells.

Facility ID: Sacramento-San Joaquin Delta 072039001

Facility Type: Industrial - Facility that treats and/or disposes of liquid or

semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is

under Waste Discharge Requirements.

NPDES Number: CA0004847 The 1st 2 characters designate the state. The remaining 7

are assigned by the Regional Board

Subregion:

Facility Telephone: 9257793200 Facility Contact: DIANA HOGAN

Agency Name: GAYLORD CONTAINER CORPORATION

Agency Address: 2301 WILBUR AVE Agency City, St, Zip: ANTIOCH 94509

Direction Distance

**EDR ID Number** Elevation **EPA ID Number** Site Database(s)

#### **GAYLORD CONTAINER CORPORATION (Continued)**

1000290838

Agency Contact: HENRY THATCHER

Agency Telephone: 9257793200 Agency Type: Private SIC Code: 2631 SIC Code 2: Not reported

Primary Waste: Process Waste (Waste produced as part of the industrial/manufacturing

process)

Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to

> water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Secondary Waste: Not reported Secondary Waste Type: Not reported

Design Flow: 15 Baseline Flow: 12

Reclamation: No reclamation requirements associated with this facility.

POTW: The POTW Does not have an approved pretreatment program. Some POTWs

may have local pretreatment programs that have not been approved by

the regional board and/or EPA.

Treat To Water: Moderate Threat to Water Quality. A violation could have a major

> adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance

from a waste treatment facility.

Category A - Any major NPDES facility, any non-NPDES facility Complexity:

(particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility

(particularly those with toxicwastes) with numerous discharge points,

leak detection systems or ground water monitoring wells.

Facility ID: 5S 07I017613

Industrial - Facility that treats and/or disposes of liquid or Facility Type:

> semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is

under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7

are assigned by the Regional Board

Subregion: 0

Facility Telephone: 9257793200

Facility Contact: HENRY THATCHER

**GAYLORD CONTAINER CORPORATION** Agency Name:

Agency Address: 2301 WILBUR AVE Agency City, St, Zip: ANTIOCH 94509 Agency Contact: HENRY THATCHER

Agency Telephone: 9257793200 Agency Type: Private SIC Code:

SIC Code 2: Not reported Primary Waste: Not reported Primary Waste Type: Not reported Secondary Waste: Not reported Secondary Waste Type: Not reported

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

## **GAYLORD CONTAINER CORPORATION (Continued)**

1000290838

**EDR ID Number** 

Design Flow: 0 0 Baseline Flow:

Reclamation: Not reported POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order

> should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to

represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as

cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

dairy waste ponds.

34 **HOLY CROSS CEMETERY** South 2200 E 018TH ST 1/8-1/4 ANTIOCH, CA 94509 0.160 mi.

S101629580 CA FID UST **SWEEPS UST** N/A

845 ft.

53 ft.

CA FID UST: Relative:

Facility ID: 07000961 Higher Regulated By: UTNKI

Actual: Regulated ID: Not reported Cortese Code: Not reported Not reported SIC Code: Facility Phone: 4157570658 Mail To: Not reported

> 1965 RELIEZ VALLEY RD Mailing Address:

Mailing Address 2: Not reported Mailing City, St, Zip: **ANTIOCH 94509** Contact: Not reported Not reported Contact Phone: **DUNs Number:** Not reported NPDES Number: Not reported Not reported EPA ID: Not reported Comments: Status: Inactive

SWEEPS UST:

Status: Not reported Comp Number: 59282 Number: Not reported Board Of Equalization: Not reported Ref Date: Not reported Not reported Act Date: Created Date: Not reported Not reported Tank Status: Owner Tank Id: Not reported

Swrcb Tank Id: 07-000-059282-000001

Not reported Actv Date: Capacity: 550 M.V. FUEL Tank Use: **PRODUCT** Stg:

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**HOLY CROSS CEMETERY (Continued)** S101629580

Content: **REG UNLEADED** 

Number Of Tanks:

35 **ENVIROCLEAN INC** CONTRA COSTA CO. SITE LIST \$104732991 East

2820 18TH ST N/A

1/8-1/4 ANTIOCH, CA 94509

0.177 mi. 933 ft.

CONTRA COSTA CO. SITE LIST: Relative:

**CONTRA COSTA** Region: Higher

Facility ID: 772972 Actual: Tier: Not reported 54 ft.

Program Status: Not reported

Generator Fee Item: Yes Inactive Date: 01/01/2002

H36 **IFCO SYSTEMS N A INC** CONTRA COSTA CO. SITE LIST S108657189 N/A

NNW 2276 WILBUR AVE 1/8-1/4 ANTIOCH, CA

0.177 mi.

935 ft. Site 5 of 5 in cluster H

CONTRA COSTA CO. SITE LIST: Relative:

Region: **CONTRA COSTA** Lower

Facility ID: 773769 Actual: Tier: Not reported 32 ft. Program Status: Hmmp

Generator Fee Item: No Inactive Date:

Not reported

08/19/2004

37 **CONSTRUCTION ENGINEERING SVCS** CONTRA COSTA CO. SITE LIST S102261691 N/A

**ENE 1671 VINEYARD DR** ANTIOCH, CA 94509 1/8-1/4

0.185 mi. 976 ft.

CONTRA COSTA CO. SITE LIST: Relative:

Lower Region: **CONTRA COSTA** 

Facility ID: 772238 Actual: Tier: Not reported

33 ft. Program Status: Not reported Generator Fee Item: Yes

Inactive Date:

TC3346200.2s Page 101

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

38 BAY COUNTIES PITCOCK PETROLEUM INC CONTRA COSTA CO. SITE LIST S109035159
NE 3050 WILBUR AVE HAZNET N/A

NE 3050 WILBUR AVE 1/8-1/4 ANTIOCH, CA 94509

1/8-1/4 0.238 mi. 1257 ft.

Relative: CONTRA COSTA CO. SITE LIST:

Lower Region: CONTRA COSTA

Facility ID: 773845

Actual: Tier: Not reported 20 ft. Program Status: HWG, Hmmp, AGT

Generator Fee Item: No

Inactive Date: Not reported

HAZNET:

Year: 2010

Gepaid: CAL000324804
Contact: DOUG PITCOCK
Telephone: 9257553835
Mailing Name: Not reported
Mailing Address: PO BOX 23684

Mailing City, St, Zip: PLEASANT HILL, CA 945230684

Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other organic solids

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL (TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 0.175 Facility County: Contra Costa

Year: 2010

Gepaid: CAL000324804
Contact: DOUG PITCOCK
Telephone: 9257553835
Mailing Name: Not reported
Mailing Address: PO BOX 23684

Mailing City, St, Zip: PLEASANT HILL, CA 945230684

Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other organic solids

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL (TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 0.2

Facility County: Contra Costa

Year: 2010

Gepaid: CAL000324804
Contact: DOUG PITCOCK
Telephone: 9257553835
Mailing Name: Not reported
Mailing Address: PO BOX 23684

Mailing City, St, Zip: PLEASANT HILL, CA 945230684

Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Other organic solids

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

**EDR ID Number** 

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

## **BAY COUNTIES PITCOCK PETROLEUM INC (Continued)**

S109035159

(H010-H129) OR (H131-H135)

Tons: 0.6 Facility County: Contra Costa

Year: 2010

CAL000324804 Gepaid: Contact: DOUG PITCOCK Telephone: 9257553835 Mailing Name: Not reported Mailing Address: PO BOX 23684

Mailing City, St, Zip: PLEASANT HILL, CA 945230684

Gen County: Not reported TSD EPA ID: CAD097030993 TSD County: Not reported Waste Category: Other organic solids

STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY Disposal Method:

(H010-H129) OR (H131-H135)

Tons:

Facility County: Contra Costa

Year: 2010

Gepaid: CAL000324804 Contact: DOUG PITCOCK Telephone: 9257553835 Mailing Name: Not reported Mailing Address: PO BOX 23684

Mailing City, St, Zip: PLEASANT HILL, CA 945230684

Gen County: Not reported CAD097030993 TSD EPA ID: TSD County: Not reported Waste Category: Other organic solids

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 0.35 Facility County: Contra Costa

> Click this hyperlink while viewing on your computer to access 2 additional CA\_HAZNET: record(s) in the EDR Site Report.

**KNA CALIFORNIA INC** WDS 1001613146 39 NNW 2151 WILBUR AVE WMUDS/SWAT N/A 1/4-1/2 ANTIOCH, CA 94509 Cortese

0.261 mi. **SLIC CONTRA COSTA CO. SITE LIST** 

1377 ft. **CHMIRS** Relative: **ENF** Lower

**HAZNET** 

Actual: CA WDS: 35 ft. Facility ID:

5S 07I015286

Facility Type: Industrial - Facility that treats and/or disposes of liquid or

> semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is

under Waste Discharge Requirements.

Direction Distance Elevation

ion Site Database(s) EPA ID Number

#### KNA CALIFORNIA INC (Continued)

1001613146

**EDR ID Number** 

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7

are assigned by the Regional Board

Subregion: 0

Facility Telephone: 9257578243 Facility Contact: FRED VIRDEN

Agency Name: KEMWATER NORTH AMERICA CO

Agency Address: PO Box 606
Agency City, St, Zip: Antioch 945090060
Agency Contact: FRED VIRDEN
Agency Type: 9257578243
Agency Type: Private
SIC Code: 0

SIC Code 2: Not reported Primary Waste: Not reported Primary Waste Type: Not reported Secondary Waste: Not reported Secondary Waste Type: Not reported

Design Flow: 0
Baseline Flow: 0

Reclamation: Not reported POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order

should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to

represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as

cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

dairy waste ponds.

WMUDS/SWAT:

Edit Date: Not reported

Complexity: Category C - Facilities having no waste treatment systems, such as

cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

dairy waste ponds.

Primary Waste: Cooling Water: Noncontact

Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants

or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils,

rubble and concrete are examples of this category.

Secondary Waste: Not reported Secondary Waste Type: Not reported Base Meridian: Not reported NPID: CA0081248

Tonnage: 0

Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False

Direction Distance

Elevation Site Database(s) EPA ID Number

## KNA CALIFORNIA INC (Continued)

1001613146

**EDR ID Number** 

Agency Type: Private

Agency Name: PIONEER CHLOR ALKALI., CO

Agency Department: Not reported
Agency Address: 2151 WILBUR AVE.

Agency City,St,Zip: ANTIOCH ,CA 94509

Agency Contact: VERRILL NORWOOD

Agency Telephone: 4234761082
Land Owner Name: Not reported
Land Owner Address: Not reported
Land Owner City,St,Zip: Not reported
Land Owner Contact: Not reported
Land Owner Phone: Not reported

Region: 5S

Facility Type: Industrial - Facility that treats and/or disposes of liquid or

semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

pumping.

Facility Description:
Not reported
Facility Telephone:
SWAT Facility Name:
Primary SIC:
Secondary SIC:
Comments:
Not reported

Waste Discharge System: True

Solid Waste Assessment Test Program:

Toxic Pits Cleanup Act Program:

Resource Conservation Recovery Act:
Department of Defence:

Solid Waste Assessment Test Program:

Not reported

Solid Waste Assessment Test Program: Threat to Water Quality:

Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a

significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance

from a waste treatment facility.

Sub Chapter 15: False
Regional Board Project Officer: PAL
Number of WMUDS at Facility: 1

Section Range: Not reported

RCRA Facility: No Waste Discharge Requirements: A

Self-Monitoring Rept. Frequency: Monthly Submittal Waste Discharge System ID: 5B072047001 Solid Waste Information ID: Not reported

#### CORTESE:

CORTESE Region: Envirostor Id: Not reported Site/Facility Type: Not reported Cleanup Status: Not reported Status Date: Not reported Site Code: Not reported Latitude: Not reported Longitude: Not reported Owner: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## KNA CALIFORNIA INC (Continued)

1001613146

**EDR ID Number** 

Enf Type: Not reported Not reported Swat R: Flag: CORTESE Order No: Not reported Waste Discharge System No: Not reported Effective Date: Not reported Region 2: Not reported WID Id: Not reported Solid Waste Id No: Not reported Waste Management Uit Name: Not reported

SLIC:

Region: STATE

Facility Status: Open - Remediation

 Status Date:
 01/01/2002

 Global Id:
 SL205032990

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)

Lead Agency Case Number: Not reported Latitude: 38.013806 Longitude: -121.778516

Case Type: Cleanup Program Site

Case Worker: NC

Local Agency: Not reported RB Case Number: SL205032990 File Location: Regional Board

Potential Media Affected: Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: \* \* CHLORIDE, \* \* IRON, \* \* MAGNESIUM, \* \* MANGANESE, Nitrate

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 5:

Region: 5

Facility Status: Remediation Underway
Unit: Facility is a Spill or site

Pollutant: Cu, ammonia

Lead Agency: DLL
Date Filed: //
Report Date: //

Date Added: Not reported Date Closed: Not reported

CONTRA COSTA CO. SITE LIST:

Region: CONTRA COSTA
Facility ID: 773273
Tier: Not reported
Program Status: Hmmp
Generator Fee Item: Yes

Inactive Date: 02/04/2004

Region: CONTRA COSTA

Facility ID: 754226
Tier: Not reported
Program Status: UST
Generator Fee Item: Yes
Inactive Date: 02/09/2007

Direction
Distance
Elevation

ation Site Database(s) EPA ID Number

## KNA CALIFORNIA INC (Continued)

1001613146

**EDR ID Number** 

CHMIRS:

OES Incident Number: 98-0095

OES notification: 1/8/199811:15:53 AM

OES Date: Not reported **OES Time:** Not reported Not reported Incident Date: Not reported **Date Completed:** Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported Property Management: Not reported Not reported Special Studies 1: Special Studies 2: Not reported Special Studies 3: Not reported Special Studies 4: Not reported Special Studies 5: Not reported Special Studies 6: Not reported

More Than Two Substances Involved?:
Resp Agncy Personel # Of Decontaminated:
Responding Agency Personel # Of Injuries:
Responding Agency Personel # Of Fatalities:
Others Number Of Decontaminated:
Others Number Of Injuries:
Others Number Of Fatalities:
Not reported
Others Number Of Fatalities:
Not reported
Not reported

Vehicle Make/year: Not reported Not reported Vehicle License Number: Vehicle State: Not reported Vehicle Id Number: Not reported CA/DOT/PUC/ICC Number: Not reported Not reported Company Name: Reporting Officer Name/ID: Not reported Report Date: Not reported Not reported Comments: Facility Telephone: Not reported

Waterway Involved: No Waterway: Not reported Not reported Spill Site: Cleanup By: Reporting Party Containment: Not reported What Happened: Not reported Not reported Type: Measure: Not reported Other: Not reported Date/Time: Not reported Year: 1998 Agency: Chem Water Incident Date: 1/8/199812:00:00 AM

Admin Agency: Contra Costa County Health Services Dept.

Amount: Not reported

Contained: Yes

Site Type: Merchant/Business E Date: Not reported Substance: Bleach

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## KNA CALIFORNIA INC (Continued)

1001613146

Quantity Released: Not reported BBLS: 0 0 Cups: CUFT: 0 Gallons: 100 - 130 Grams: 0 Pounds: 0 0 Liters: Ounces: 0 Pints: 0 Quarts: 0 Sheen: 0 Tons: 0 Unknown: 0 Evacuations: 0

Description: Overfilled truck and spilled into secondary containment area

releasing a vapor.

ENF:

Number of Injuries:

Number of Fatalities:

Region: 5S Facility Id: 234774 Agency Name: Not reported Place Type: Facility Place Subtype: Not reported Facility Type: Industrial Agency Type: Not reported # Of Agencies: Not reported Place Latitude: 38.012307 Place Longitude: -121.77859 SIC Code 1: 2842

0

0

SIC Desc 1: Speciality Cleaning, Polishing, and Sanitary Preparations

SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported

# Of Places:

Source Of Facility: **Enf Action** Not reported Design Flow: Threat To Water Quality: Not reported Complexity: Not reported Not reported Pretreatment: Facility Waste Type: Not reported Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported Facility Waste Type 4: Not reported NPDES Program: # Of Programs:

WDID: Not reported Reg Measure Id: Not reported

Map ID Direction Distance Elevation

**EDR ID Number** Site Database(s) **EPA ID Number** 

Not reported

#### KNA CALIFORNIA INC (Continued)

Reg Measure Type:

1001613146

Not reported Region: Order #: Not reported Npdes# CA#: Not reported Major-Minor: Not reported Npdes Type: Not reported Reclamation: Not reported Not reported Dredge Fill Fee: 301H: Not reported Application Fee Amt Received: Not reported Status: Not reported Not reported Status Date: Effective Date: Not reported Expiration/Review Date: Not reported Termination Date: Not reported WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported Status Enrollee: Not reported Individual/General: Not reported Fee Code: Not reported Not reported Direction/Voice: Enforcement Id(EID): 224637 Region: 5S Order / Resolution Number: R5-1997-0710

Enforcement Action Type: Clean-up and Abatement Order

08/22/1997 Effective Date: Adoption/Issuance Date: Not reported Achieve Date: Not reported Termination Date: Not reported ACL Issuance Date: Not reported EPL Issuance Date: Not reported Status: Active

CAO R5-1997-0710 for Pioneer Chlor Alkali Co, Kemwater North America Title:

Description: CLEANUP & ABATE GW CONTAMINATION. SUBMIT VARIOUS RPTS ON SOIL & GW

INVEST. OFFSITE GW STUDY.

Program: **NPDES** Latest Milestone Completion Date: Not reported

# Of Programs1: **Total Assessment Amount:** 0 Initial Assessed Amount: 0 Liability \$ Amount: 0 Project \$ Amount: 0 Liability \$ Paid: 0 Project \$ Completed: 0 Total \$ Paid/Completed Amount: 0

Region: 5S Facility Id: 234774 Agency Name: Not reported Place Type: Facility Place Subtype: Not reported Facility Type: Industrial Agency Type: Not reported

Map ID Direction Distance Elevation

Site Database(s) EPA ID Number

## KNA CALIFORNIA INC (Continued)

1001613146

**EDR ID Number** 

# Of Agencies: Not reported Place Latitude: 38.012307 Place Longitude: -121.77859 SIC Code 1: 2842

SIC Desc 1: Speciality Cleaning, Polishing, and Sanitary Preparations

SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported

# Of Places:

Source Of Facility: Enf Action Design Flow: Not reported Threat To Water Quality: Not reported Complexity: Not reported Pretreatment: Not reported Facility Waste Type: Not reported Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported Not reported Facility Waste Type 4: Program: **NPDES** 

# Of Programs:

WDID: Not reported Reg Measure Id: Not reported Reg Measure Type: Not reported Not reported Region: Order #: Not reported Npdes# CA#: Not reported Major-Minor: Not reported Not reported Npdes Type: Reclamation: Not reported Dredge Fill Fee: Not reported 301H: Not reported Application Fee Amt Received: Not reported Status: Not reported Status Date: Not reported Effective Date: Not reported Expiration/Review Date: Not reported Not reported **Termination Date:** Not reported WDR Review - Amend: WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported Not reported Status Enrollee:

Individual/General:Not reportedFee Code:Not reportedDirection/Voice:Not reportedEnforcement Id(EID):223693

Region: 5S

Order / Resolution Number: R5-1991-0715

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## KNA CALIFORNIA INC (Continued)

1001613146

**Enforcement Action Type:** Clean-up and Abatement Order

04/30/1991 Effective Date: Adoption/Issuance Date: Not reported Achieve Date: Not reported Termination Date: Not reported ACL Issuance Date: Not reported EPL Issuance Date: Not reported Status: Historical

Title: CAO R5-1991-0715 for Pioneer Chlor Alkali Co, Kemwater North America Description: REQUIRE ADDENDUM TO COMPLETE HAR & RESCIND C&A 88-702

**NPDES** Program: Not reported Latest Milestone Completion Date:

# Of Programs1: **Total Assessment Amount:** 0 Initial Assessed Amount: 0 Liability \$ Amount: 0 Project \$ Amount: 0 Liability \$ Paid: 0 Project \$ Completed: 0 Total \$ Paid/Completed Amount: 0

HAZNET:

Year: 2004

CAD041316043 Gepaid:

LISA KAY TUCK, SR EHS SPECIALIST Contact:

Telephone: 7135703202 Mailing Name: Not reported

Mailing Address: 700 LOUISIANA ST STE 4300 Mailing City, St, Zip: HOUSTON, TX 770020000

Gen County: Contra Costa TSD EPA ID: UTC093012201

TSD County:

Waste Category: Contaminated soil from site clean-up

Disposal Method: D80 1100 Tons: Facility County: Not reported

Year: 2003

Gepaid: CAD041316043

Contact: LISA KAY TUCK, SR EHS SPECIALIST

Telephone: 7135703202

Mailing Name: KNA CALIFORNIA INC Mailing Address: 700 LOUISIANA ST STE 4300 Mailing City, St, Zip: HOUSTON, TX 770020000

Gen County: Contra Costa TSD EPA ID: UTC093012201 TSD County: Contra Costa

Waste Category: Contaminated soil from site clean-up

Disposal Method: D80 Tons: 3124 Facility County:

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

I40 SANTA YNEZ HIGH SCHOOL HIST CORTESE \$105022532

N/A

1/4-1/2 ANTIOCH, CA 94509

**2000 WILBUR** 

0.268 mi.

NNW

1415 ft. Site 1 of 3 in cluster I

Relative: CORTESE:

Lower Region: CORTESE

Facility County Code: 7

 Actual:
 Reg By:
 LTNKA

 42 ft.
 Reg Id:
 3245

141 GWF POWER PLANT - ANTIOCH SLIC \$103617136

NW 1900 WILBUR AVENUE AST N/A

1/4-1/2 ANTIOCH, CA CONTRA COSTA CO. SITE LIST

0.279 mi.

1474 ft. Site 2 of 3 in cluster I

Relative: SLIC:

Higher Region: STATE

Facility Status: Open - Verification Monitoring

 Actual:
 Status Date:
 05/13/2010

 46 ft.
 Global Id:
 SL0601350099

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)

Lead Agency Case Number: Not reported Latitude: 38.011724 Longitude: -121.780983

Case Type: Cleanup Program Site

Case Worker: PMV
Local Agency: Not reported
RB Case Number: Not reported
File Location: Regional Board

Potential Media Affected: Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: Diesel

Site History: The Site is an active steam electrical power generation facility that

produces electricity from the combustion of petroleum coke, which is a by-product of petroleum refining. In November 1992, GWF reported a diesel spill from a leak in the buried piping to the aboveground

storage tank (AGT). GWF immediately repaired the leak, excavated the contaminated soil, and retrofitted the pipe to operate aboveground.

Click here to access the California GeoTracker records for this facility:

AST:

Owner: Not reported
Total Gallons: 40,000
Certified Unified Program Agencies: Contra Costa

CONTRA COSTA CO. SITE LIST:

Region: CONTRA COSTA

Facility ID: 771389
Tier: Not reported

Program Status: HWG, Hmmp, AGT, ARP

Generator Fee Item: No

Inactive Date: Not reported

Direction Distance

Distance EDR ID Number
Elevation Site EDR ID Number

 I42
 GWF POWER PLANT
 SLIC
 \$106230283

 NW
 1900 WILBER AVE W
 N/A

1900 WILBER AVE W ANTIOCH, CA

1/4-1/2 0.279 mi.

1474 ft. Site 3 of 3 in cluster I

Relative:

SLIC REG 5:

Higher Region:

Facility Status: Preliminary Assessment

Actual: Unit: Facility is a Spill or site

46 ft. Pollutant: TPH d

Pollutant: TPH-d Lead Agency: Not reported Date Filed: / /

Report Date: 02/19/98
Date Added: Not reported
Date Closed: Not reported

J43 IMPERIAL WEST CHEM CO NW 1701 WILBUR AVE 1/4-1/2 ANTIOCH, CA 94509

0.295 mi.

1555 ft. Site 1 of 3 in cluster J

Relative: Higher

Actual: RCRA-SQG:

53 ft. Date form received by agency: 09/01/1996

Facility name: IMPERIAL WEST CHEM CO Facility address: 1701 WILBUR AVE

ANTIOCH, CA 94509

EPA ID: CAD041316043

Mailing address: PO SIXTH HUNDRED NINETY SIXTH

ANTIOCH, CA 94509

Contact: Not reported
Contact address: Not reported
Not reported

Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported

EPA Region: 09

Land type: Facility is not located on Indian land. Additional information is not known.

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: IMPERIAL WEST CHEMICAL COMPANY

Owner/operator address: NOT REQUIRED

NOT REQUIRED, ME 99999

Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

RCRA-SQG

**CA FID UST** 

**MANIFEST** 

**SWEEPS UST** 

**HIST CORTESE** 

**FINDS** 

SLIC HIST UST 1000215295

CAD041316043

Direction
Distance

Elevation Site Database(s) EPA ID Number

#### IMPERIAL WEST CHEM CO (Continued)

1000215295

**EDR ID Number** 

Owner/operator name: NOT REQUIRED Owner/operator address: NOT REQUIRED

NOT REQUIRED, ME 99999

Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

#### Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: Nο User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

#### Historical Generators:

Date form received by agency: 08/18/1980

Facility name: IMPERIAL WEST CHEM CO
Classification: Large Quantity Generator

## Facility Has Received Notices of Violations:

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 04/05/1993

Date achieved compliance: 11/02/1994 Violation lead agency: State Enforcement action: Not reported Enforcement action date: Not reported Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: Not reported Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General

Date violation determined: 09/12/1991
Date achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

AP ID MAP FINDINGS

Map ID Direction Distance Elevation

tance EDR ID Number vation Site Database(s) EPA ID Number

#### IMPERIAL WEST CHEM CO (Continued)

1000215295

Enforcement lead agency:
Proposed penalty amount:
Final penalty amount:
Paid penalty amount:
Not reported
Not reported

Regulation violated: FR - 262.20-23.B Area of violation: Generators - General

Date violation determined: 09/12/1991
Date achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure

Date violation determined: 09/12/1991 Date achieved compliance: 02/18/1994

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 05/30/1991

04/05/1993 Date achieved compliance: Violation lead agency: State Enforcement action: Not reported Enforcement action date: Not reported Enf. disposition status: Not reported Not reported Enf. disp. status date: Enforcement lead agency: Not reported Proposed penalty amount: Not reported Final penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 03/25/1991
Date achieved compliance: 02/18/1994

Violation lead agency: State

Paid penalty amount:

Enforcement action: WRITTEN INFORMAL

Not reported

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Direction Distance

Elevation Site Database(s) EPA ID Number

## IMPERIAL WEST CHEM CO (Continued)

1000215295

**EDR ID Number** 

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B Area of violation: TSD - General Date violation determined: 03/25/1991 Date achieved compliance: 02/18/1994 Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure

Date violation determined: 03/25/1991
Date achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H

Area of violation: TSD - Financial Requirements

09/12/1991

Date violation determined: 03/25/1991
Date achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action date:

Enforcement action: WRITTEN INFORMAL

Enf. disposition status: Not reported Enf. disp. status date: Not reported Enforcement lead agency: State Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 03/25/1991
Date achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

D ID MAP FINDINGS

Map ID Direction Distance Elevation

on Site Database(s) EPA ID Number

## IMPERIAL WEST CHEM CO (Continued)

1000215295

**EDR ID Number** 

Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: FR - 264.400-406.Q

Area of violation: TSD IS-Chemical, Physical, AND Treatment

Date violation determined: 03/25/1991
Date achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A Area of violation: Generators - General

Date violation determined: 03/25/1991
Date achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
03/25/1991
02te achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General

Date violation determined: 03/25/1991
Date achieved compliance: 02/18/1994
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 09/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## IMPERIAL WEST CHEM CO (Continued)

1000215295

**EDR ID Number** 

Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A Area of violation: Generators - General

Date violation determined: 01/29/1985
Date achieved compliance: 01/09/1991
Violation lead agency: EPA

Enforcement action: FINAL 3008(A) COMPLIANCE ORDER

Enforcement action date:

Enf. disposition status:

Enf. disp. status date:

Enforcement lead agency:

Proposed penalty amount:

Paid penalty amount:

Not reported

**Evaluation Action Summary:** 

Evaluation date: 11/02/1994

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported

Evaluation lead agency: State Contractor/Grantee

Evaluation date: 10/25/1994

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

State

Evaluation date: 04/05/1993

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 11/02/1994

Evaluation lead agency: State Contractor/Grantee

Evaluation date: 05/30/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 04/05/1993

Evaluation lead agency: State Contractor/Grantee

Evaluation date: 01/09/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD IS-Chemical, Physical, AND Treatment

Date achieved compliance: 02/18/1994 Evaluation lead agency: State

Evaluation date: 01/09/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 02/18/1994 Evaluation lead agency: State

Evaluation date: 01/09/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Generators - General

Date achieved compliance: 02/18/1994

Map ID Direction Distance Elevation

tion Site Database(s) EPA ID Number

## IMPERIAL WEST CHEM CO (Continued)

1000215295

**EDR ID Number** 

Evaluation lead agency: State

Evaluation date: 01/09/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - Financial Requirements

Date achieved compliance: 02/18/1994 Evaluation lead agency: State

Evaluation date: 01/09/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - Closure/Post-Closure

Date achieved compliance: 02/18/1994 Evaluation lead agency: State

Evaluation date: 01/29/1985

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Generators - General

Date achieved compliance: 01/09/1991 Evaluation lead agency: EPA

Evaluation date: 01/24/1985

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

EPA

FINDS:

Registry ID: 110000482754

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with

Direction
Distance
Elevation

tion Site Database(s) EPA ID Number

## IMPERIAL WEST CHEM CO (Continued)

1000215295

**EDR ID Number** 

a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

CORTESE:

Region: CORTESE

Facility County Code:

Reg By: WBC&D Reg Id: 5B072047001

CA FID UST:

07000533 Facility ID: Regulated By: UTNKA Regulated ID: Not reported Cortese Code: Not reported SIC Code: Not reported Facility Phone: 4157578230 Mail To: Not reported P O BOX Mailing Address: Mailing Address 2: Not reported ANTIOCH 94509 Mailing City, St, Zip: Not reported Contact: Not reported Contact Phone: **DUNs Number:** Not reported NPDES Number: Not reported EPA ID: Not reported Not reported Comments: Active Status:

SLIC REG 5:

Region: 5

Facility Status: Preliminary Assessment
Unit: Facility is a Spill or site
Pollutant: Chloride, Lead, Flouride

Lead Agency: Not reported

Date Filed: //
Report Date: 04/18/96
Date Added: Not reported
Date Closed: Not reported

HIST UST:

Region: STATE Facility ID: 00000054226

Facility Type: Other

Other Type: CHEMICAL MANUFACTURI

Total Tanks: 0002

Contact Name: FRANK BELLISS Telephone: 4157578230

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### IMPERIAL WEST CHEM CO (Continued)

1000215295

IMPERIAL WEST CHEMICAL COMPANY Owner Name:

1701 WILBUR AVENUE Owner Address: Owner City,St,Zip: ANTIOCH, CA 94509

Tank Num: 001 Container Num:

Year Installed: Not reported 00004500 Tank Capacity: Tank Used for: **PRODUCT** Type of Fuel: DIESEL Tank Construction: Not reported

Leak Detection: Stock Inventor, Groundwater Monitoring Well

Tank Num: 002 Container Num: Year Installed: 1971 Tank Capacity: 00000000 Tank Used for: WASTE Type of Fuel: Not reported Tank Construction: Not reported

Leak Detection: **Groundwater Monitoring Well** 

NY MANIFEST:

CAD041316043 EPA ID:

Country: USA

Mailing Name: KEMWATER NORTH AMERICA Mailing Contact: FREDRICK VIRDU

Mailing Address: 2151 WOLBER AVE Mailing Address 2: Not reported ANTIOOH Mailing City: Mailing State: CA Mailing Zip: 94509 Mailing Zip4: Not reported Mailing Country: USA

Mailing Phone: 925-757-8230

Document ID: NYG1190151 Manifest Status: Not reported Trans1 State ID: NYD982792814 NYD982792814 Trans2 State ID: Generator Ship Date: 03/23/1999 Trans1 Recv Date: 03/23/1999 Trans2 Recv Date: 03/24/1999 TSD Site Recv Date: 04/09/1999 Part A Recv Date: Not reported Part B Recv Date: Not reported CAD041316043 Generator EPA ID: NYD000632372 Trans1 EPA ID: Trans2 EPA ID: Not reported TSDF ID: Not reported

Waste Code: D002 - NON-LISTED CORROSIVE WASTES

00019 Quantity: Units: P - Pounds

Number of Containers: 001

Container Type: CY - Cylinders

Handling Method: T Chemical, physical, or biological treatment.

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## IMPERIAL WEST CHEM CO (Continued)

1000215295

Specific Gravity: 01.00

D001 - NON-LISTED IGNITABLE WASTES Waste Code:

Quantity: 00019 Units: P - Pounds Number of Containers: 001

Container Type: CY - Cylinders

Handling Method: B Incineration, heat recovery, burning.

Specific Gravity:

Waste Code: D001 - NON-LISTED IGNITABLE WASTES

Quantity: 00019 P - Pounds Units: Number of Containers: 001

Container Type: CY - Cylinders

Handling Method: B Incineration, heat recovery, burning.

Specific Gravity: 01.00 99 Year:

#### SWEEPS UST:

Status: Not reported 54226 Comp Number: Number: Not reported Board Of Equalization: 44-002459 Ref Date: Not reported Act Date: Not reported Not reported Created Date: Tank Status: Not reported Owner Tank Id: Not reported

07-000-054226-000001 Swrcb Tank Id:

Actv Date: Not reported Capacity: 4500 Tank Use: M.V. FUEL Stg: **PRODUCT** Content: DIESEL

Number Of Tanks: 1

Status: Α Comp Number: 54226 Number: Board Of Equalization: 44-002459 Ref Date: 06-20-88 Act Date: Not reported Created Date: 07-22-88 Tank Status:

Owner Tank Id: Not reported

07-000-054226-000002 Swrcb Tank Id:

Actv Date: 06-20-88 Capacity: 10000 M.V. FUEL Tank Use: Stg: DIESEL Content:

Number Of Tanks:

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

J44 IMPERIAL WEST, ANTIOCH PLANT **Toxic Pits** S100925117 EMI N/A

NW **1701 WILBUR AVENUE** 1/4-1/2 ANTIOCH, CA 94509

0.295 mi.

1555 ft. Site 2 of 3 in cluster J

Toxic Pits: Relative:

05S Higher Region: Task #: 85001

Actual: IMPERIAL WEST CHEMICAL CO. Owner:

53 ft. 1/2 Mi Limit:

Num. of Pits: Cease Discharge Due: 09/01/90 Cease Discharge Complete:// Closure Due: 11/01/90 **Closure Completed:** 01/16/92 **CLOSED** Status:

Hydro Geological Assessment Report Due: 04/01/92 Final Hydro Geological Assessment Review Completed: //

EMI:

1990 Year: County Code: 7 Air Basin: SF Facility ID: 725 Air District Name: BA 2819 SIC Code:

BAY AREA AQMD Air District Name: Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 0 Reactive Organic Gases Tons/Yr: 0 Carbon Monoxide Emissions Tons/Yr: 0 NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: 9 Part. Matter 10 Micrometers & Smllr Tons/Yr:

Year: 1993 County Code: 7 Air Basin: SF Facility ID: 725 Air District Name: BA SIC Code: 2819

BAY AREA AQMD Air District Name: Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 0 Reactive Organic Gases Tons/Yr: 0 Carbon Monoxide Emissions Tons/Yr: 0 NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: Part. Matter 10 Micrometers & Smllr Tons/Yr: 4

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

J45 QUIK STOP MARKET NO. 78 HIST CORTESE \$100849593

NW 1779 WILBUR CONTRA COSTA CO. SITE LIST N/A

1/4-1/2 ANTIOCH, CA 94509

0.295 mi.

1557 ft. Site 3 of 3 in cluster J

Relative: CORTESE:

Higher Region: CORTESE

Facility County Code: 7

Actual: Reg By: LTNKA
53 ft. Reg Id: 3257

CONTRA COSTA CO. SITE LIST:

Region: CONTRA COSTA

Facility ID: 720372
Tier: Not reported
Program Status: UST

Generator Fee Item: No Inactive Date: 12/24/1986

K46 GUMARO'S AUTO REPAIR LUST \$104579565

West 1801 HILLCREST AVE CONTRA COSTA CO. SITE LIST N/A
1/4-1/2 ANTIOCH, CA 94509 HAZNET

0.315 mi.

1662 ft. Site 1 of 2 in cluster K

Relative: LUST:

 Lower
 Region:
 STATE

 Global Id:
 T0601325015

 Actual:
 Latitude:
 38.00377326

 36 ft.
 Longitude:
 -121.7870175

 Case Type:
 LUST Cleanup Site

 Status:
 Open - Remediation

Status Date: 03/01/2007

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)

Case Worker: PMV

Local Agency: CONTRA COSTA COUNTY

RB Case Number: 070104
LOC Case Number: Not reported
File Location: Not reported

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

Site History: The case was opened following an unauthorized release from an underground storage tank system at the subject site. Corrective

action is underway as directed by the CVRWQCB. Corrective action may

consist of preliminary site investigation, planning and

implementation of remedial action, verification monitoring, or a combination thereof. A summary of the site history is available by clicking on either the "Cleanup Status History", "Regulatory Activities" or the "Site Maps/Documents" tab. For a complete site history the case file at the CVRWQCB should be consulted.

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id: T0601325015

Contact Type: Local Agency Caseworker

Contact Name: PAUL ANDREWS

Organization Name: CONTRA COSTA COUNTY
Address: 4333 PACHECO BOULEVARD

Direction Distance

Elevation Site Database(s) EPA ID Number

# **GUMARO'S AUTO REPAIR (Continued)**

S104579565

**EDR ID Number** 

City: MARTINEZ

Email: pandrews@hsd.co.contra-costa.ca.us

Phone Number: 9256462286

Global Id: T0601325015

Contact Type: Regional Board Caseworker

Contact Name: BRIAN TAYLOR

Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)

Address: 11020 SUN CENTER DRIVE #200

City: RANCHO CORDOVA
Email: betaylor@waterboards.ca.gov

Phone Number: Not reported

LUST:

Global Id: T0601325015
Action Type: ENFORCEMENT
Date: 09/27/2005

Action: \* Historical Enforcement

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 10/19/2006

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 05/13/2005

Action: \* Historical Enforcement

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 01/23/2007

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 04/25/2006

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 04/26/2006

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 07/21/2005

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 RESPONSE

 Date:
 06/30/2004

Action: Other Report / Document

Global Id: T0601325015
Action Type: ENFORCEMENT
Date: 08/17/2010

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

## **GUMARO'S AUTO REPAIR (Continued)**

S104579565

**EDR ID Number** 

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 06/08/2010

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 RESPONSE

 Date:
 02/28/2005

Action: Other Report / Document

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 09/18/2007

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 09/13/2006

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 06/13/2007

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 03/25/2004

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 05/16/2003

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 05/22/2003

Action: Technical Correspondence / Assistance / Other

Global Id: T0601325015
Action Type: ENFORCEMENT
Date: 10/17/2005

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 07/29/2003

Action: Technical Correspondence / Assistance / Other - #07/29/2003

Global Id: T0601325015
Action Type: ENFORCEMENT
Date: 01/20/2004

Action: Technical Correspondence / Assistance / Other

Map ID Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

#### **GUMARO'S AUTO REPAIR (Continued)**

S104579565

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 03/15/2003

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 12/02/2008

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 RESPONSE

 Date:
 02/28/2005

Action: Other Report / Document

 Global Id:
 T0601325015

 Action Type:
 RESPONSE

 Date:
 09/27/2010

Action: Clean Up Fund - 5-Year Review Summary

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 07/15/2009

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 11/17/2004

Action: \* Historical Enforcement

 Global Id:
 T0601325015

 Action Type:
 RESPONSE

 Date:
 09/20/2011

Action: Clean Up Fund - 5-Year Review Summary

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 01/06/2011

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 07/13/2010

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 11/15/2011

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Discovery

Global Id: T0601325015
Action Type: ENFORCEMENT

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

## **GUMARO'S AUTO REPAIR (Continued)**

S104579565

**EDR ID Number** 

Date: 12/03/2007

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 04/18/2005

Action: \* Verbal Communication

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 02/03/2005

Action: \* Verbal Communication

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 05/20/2008

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 06/09/2008

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 02/25/2008

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 05/29/2007

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 10/27/2008

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 10/10/2008

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 08/13/2009

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 11/24/2009

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 05/04/2011

Action: Technical Correspondence / Assistance / Other

Direction Distance

Elevation Site Database(s) EPA ID Number

# **GUMARO'S AUTO REPAIR (Continued)**

S104579565

**EDR ID Number** 

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 10/04/2011

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 05/05/2011

Action: Site Visit / Inspection / Sampling

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 05/12/2005

Action: \* Historical Enforcement

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 01/23/2006

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 REMEDIATION

 Date:
 01/01/1950

 Action:
 Excavation

Global Id: T0601325015
Action Type: ENFORCEMENT
Date: 11/17/2010

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 RESPONSE

 Date:
 10/29/2004

 Action:
 Other Workplan

 Global Id:
 T0601325015

 Action Type:
 RESPONSE

 Date:
 06/30/2005

Action: Other Report / Document

 Global Id:
 T0601325015

 Action Type:
 RESPONSE

 Date:
 05/31/2005

 Action:
 Other Workplan

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 09/26/2007

 Action:
 Staff Letter

Global Id: T0601325015
Action Type: ENFORCEMENT
Date: 05/05/2004

Action: Technical Correspondence / Assistance / Other

Global Id: T0601325015
Action Type: ENFORCEMENT

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# **GUMARO'S AUTO REPAIR (Continued)**

S104579565

Date: 03/21/2007

Action: Technical Correspondence / Assistance / Other

Global Id: T0601325015 Action Type: **ENFORCEMENT** Date: 08/11/2004 Action: Staff Letter

Global Id: T0601325015 Action Type: **ENFORCEMENT** Date: 01/22/2004

Technical Correspondence / Assistance / Other Action:

Global Id: T0601325015 Action Type: **ENFORCEMENT** Date: 11/11/2010

Action: Technical Correspondence / Assistance / Other

Global Id: T0601325015 **ENFORCEMENT** Action Type: Date: 11/27/2007

Action: Technical Correspondence / Assistance / Other

Global Id: T0601325015 Action Type: **ENFORCEMENT** Date: 06/11/2007

Action: Technical Correspondence / Assistance / Other

Global Id: T0601325015 Action Type: **ENFORCEMENT** 04/02/2009 Date:

Action: Technical Correspondence / Assistance / Other

Global Id: T0601325015 RESPONSE Action Type: 02/27/2006 Date:

Action: Verbal Communication

T0601325015 Global Id: Action Type: **ENFORCEMENT** Date: 02/04/2010 Action: Staff Letter

Global Id: T0601325015 Action Type: **ENFORCEMENT** 12/02/2009 Date: Action: Staff Letter

Global Id: T0601325015 Action Type: **ENFORCEMENT** Date: 09/30/2010 Action: Staff Letter

Global Id: T0601325015 Action Type: **ENFORCEMENT** 04/21/2005 Date:

Action: \* Verbal Communication

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

# **GUMARO'S AUTO REPAIR (Continued)**

S104579565

**EDR ID Number** 

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 02/15/2006

Action: \* Verbal Communication

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 02/27/2008

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 11/22/2010

Action: Clean Up Fund - Letter to RP

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 09/19/2007

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 11/25/2008

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Reported

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 01/20/2009

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 11/28/2008

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 03/30/2004

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 07/20/2005

Action: \* Historical Enforcement

Global Id: T0601325015
Action Type: ENFORCEMENT
Date: 12/28/2006

Action: Technical Correspondence / Assistance / Other

Global Id: T0601325015
Action Type: ENFORCEMENT

ID MAP FINDINGS

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

# **GUMARO'S AUTO REPAIR (Continued)**

S104579565

**EDR ID Number** 

Date: 06/13/2011

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 06/14/2011

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 10/29/2009

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 12/22/2009

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 03/03/2011

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 09/07/2005

Action: \* Historical Enforcement

Global Id: T0601325015
Action Type: ENFORCEMENT
Date: 10/15/2007

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 09/14/2006

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 12/03/2004

Action: \* Verbal Communication

 Global Id:
 T0601325015

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Stopped

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 11/22/2004

Action: \* Verbal Communication

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 12/17/2004

Action: \* Verbal Communication

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **GUMARO'S AUTO REPAIR (Continued)**

S104579565

**EDR ID Number** 

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 12/22/2004

Action: \* Verbal Communication

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 04/14/2005

 Action:
 Staff Letter

 Global Id:
 T0601325015

 Action Type:
 ENFORCEMENT

 Date:
 12/14/2004

 Action:
 Staff Letter

#### CONTRA COSTA CO. SITE LIST:

Region: CONTRA COSTA Facility ID: 748818

Tier: Not reported Program Status: HWG, UST, Hmmp

Generator Fee Item: No

Inactive Date: Not reported

Region: CONTRA COSTA

Facility ID: 772305
Tier: Not reported
Program Status: Not reported

Generator Fee Item: Yes
Inactive Date: 10/30/2001

# HAZNET:

Year: 1999

Gepaid: CAL000148874
Contact: GUMARO GOMEZ
Telephone: 5107789814
Mailing Name: Not reported
Mailing Address: 3728 DANIEL DR
Mailing City, St, Zip: OAKLEY, CA 945612857

Gen County: 7

TSD EPA ID: CAD009466392

TSD County: 7

Waste Category: Other empty containers 30 gallons or more

Disposal Method: R01
Tons: 0.275
Facility County: 7

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

K47 **BEACON HILLCREST** LUST S106127554 West N/A

**1801 HILLCREST AVENUE** 

1/4-1/2 ANTIOCH, CA 94509

0.315 mi.

1662 ft. Site 2 of 2 in cluster K

LUST REG 5: Relative:

Lower Region:

Pollution Characterization Status:

Actual: Case Number: 070104

36 ft. Case Type: Drinking Water Aquifer affected

> Substance: **GASOLINE** PMV Staff Initials: Lead Agency: Regional LUST Program: MTBE Code: N/A

48 **PG&E, CONTRA COSTA POWER PLANT Toxic Pits** S100925119 **EMI** N/A

NW **1456 WILBUR AVENUE** ANTIOCH, CA 94509 1/4-1/2

0.315 mi. 1665 ft.

Toxic Pits: Relative:

Region: 05S Higher Task #: 85013

Actual: Owner: PG&E - ENVIRONMENTAL SERVICES

56 ft. 1/2 Mi Limit:

> Num. of Pits: 3 Cease Discharge Due: 06/30/88 Cease Discharge Complete: 01/30/87 Closure Due: 01/01/87 **Closure Completed:** 12/05/88 **CLOSED**

Hydro Geological Assessment Report Due:

Final Hydro Geological Assessment Review Completed: 11/25/88

EMI:

1990 Year: County Code: 7 Air Basin: SF Facility ID: 18 Air District Name: ВА SIC Code: 4931

**BAY AREA AQMD** Air District Name: Not reported Community Health Air Pollution Info System: Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 64 Reactive Organic Gases Tons/Yr: 41 Carbon Monoxide Emissions Tons/Yr: 438 NOX - Oxides of Nitrogen Tons/Yr: 2223 SOX - Oxides of Sulphur Tons/Yr: 437 Particulate Matter Tons/Yr: 94 Part. Matter 10 Micrometers & Smllr Tons/Yr: 92

Year: 1995 County Code: 7 Air Basin: SF Facility ID: 18

**EDR ID Number** 

Map ID Direction Distance Elevation

ance EDR ID Number vation Site Database(s) EPA ID Number

BA

4931

#### PG&E, CONTRA COSTA POWER PLANT (Continued)

Air District Name:

SIC Code:

Air District Name:

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule:

BAY AREA AQMD

Not reported

Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 10
Reactive Organic Gases Tons/Yr: 4
Carbon Monoxide Emissions Tons/Yr: 234
NOX - Oxides of Nitrogen Tons/Yr: 839
SOX - Oxides of Sulphur Tons/Yr: 4
Particulate Matter Tons/Yr: 18
Part. Matter 10 Micrometers & Smllr Tons/Yr: 18

 Year:
 1996

 County Code:
 7

 Air Basin:
 SF

 Facility ID:
 18

 Air District Name:
 BA

 SIC Code:
 4931

Air District Name:

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule:

BAY AREA AQMD

Not reported

Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 11
Reactive Organic Gases Tons/Yr: 5
Carbon Monoxide Emissions Tons/Yr: 234
NOX - Oxides of Nitrogen Tons/Yr: 839
SOX - Oxides of Sulphur Tons/Yr: 4
Particulate Matter Tons/Yr: 18
Part. Matter 10 Micrometers & Smllr Tons/Yr: 18

 Year:
 1997

 County Code:
 7

 Air Basin:
 SF

 Facility ID:
 18

 Air District Name:
 BA

 SIC Code:
 4931

Air District Name:

Community Health Air Pollution Info System:

Consolidated Emission Reporting Rule:

BAY AREA AQMD

Not reported

Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 14
Reactive Organic Gases Tons/Yr: 7
Carbon Monoxide Emissions Tons/Yr: 280
NOX - Oxides of Nitrogen Tons/Yr: 1010
SOX - Oxides of Sulphur Tons/Yr: 4
Particulate Matter Tons/Yr: 21
Part. Matter 10 Micrometers & Smllr Tons/Yr: 21

 Year:
 1998

 County Code:
 7

 Air Basin:
 SF

 Facility ID:
 18

 Air District Name:
 BA

 SIC Code:
 4931

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 18

S100925119

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

PG&E, CONTRA COSTA POWER PLANT (Continued)

S100925119

Reactive Organic Gases Tons/Yr: Carbon Monoxide Emissions Tons/Yr: 374 NOX - Oxides of Nitrogen Tons/Yr: 820 SOX - Oxides of Sulphur Tons/Yr: 6 Particulate Matter Tons/Yr: 28 Part. Matter 10 Micrometers & Smllr Tons/Yr: 28

49 **CONTRA COSTA POWER PLT ANTIOCH** WMUDS/SWAT S102509496 NW **PO BOX 249** WDS N/A

1/4-1/2 ANTIOCH CA, CA 94509

1769 ft.

Actual:

35 ft.

0.335 mi.

WMUDS/SWAT: Relative: Lower

Edit Date: Not reported

Complexity: Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if

discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility

(particularly those with toxicwastes) with numerous discharge points,

leak detection systems or ground water monitoring wells.

Primary Waste: Cooling Water: Noncontact

Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to

> water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Secondary Waste: Not reported Secondary Waste Type: Not reported Base Meridian: Not reported NPID: CA0004863

Tonnage: 0

Regional Board ID: Not reported Municipal Solid Waste: False Superorder: False Open To Public: False Waste List: False Agency Type: Private

Agency Name: SOUTHERN ENERGY DELTA, LLC

Agency Department: Not reported P.O. BOX 249 Agency Address:

Agency City, St, Zip: **ANTIOCH** CA 94509

Agency Contact: STEVE GALLO Agency Telephone: 9254273500 Land Owner Name: Not reported Land Owner Address: Not reported Land Owner City, St, Zip: Not reported Land Owner Contact: Not reported Not reported Land Owner Phone:

Region: 5S

Facility Type: Industrial - Facility that treats and/or disposes of liquid or

semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

pumping.

Facility Description: Not reported Not reported Facility Telephone: SWAT Facility Name: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number** 

# **CONTRA COSTA POWER PLT ANTIOCH (Continued)**

S102509496

**EDR ID Number** 

Primary SIC: 4911 Secondary SIC: Not reported Not reported Comments: Not reported Last Facility Editors:

Waste Discharge System: True

Solid Waste Assessment Test Program: False Toxic Pits Cleanup Act Program: True Resource Conservation Recovery Act: True Department of Defence: False Solid Waste Assessment Test Program: Not reported

Threat to Water Quality: Major Threat to Water Quality. A violation could render unusable a

ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to

toxic substances.

Sub Chapter 15: True Regional Board Project Officer: RJ Number of WMUDS at Facility:

Section Range: Not reported

RCRA Facility: Yes

Waste Discharge Requirements: Α

Self-Monitoring Rept. Frequency: Quarterly Submittal Waste Discharge System ID: 5B072014008 Solid Waste Information ID: Not reported

CA WDS:

Facility ID: Sacramento-San Joaquin Delta 072014008

Facility Type: Industrial - Facility that treats and/or disposes of liquid or

semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is

under Waste Discharge Requirements.

CA0004863 The 1st 2 characters designate the state. The remaining 7 NPDES Number:

are assigned by the Regional Board

Subregion:

Facility Telephone: 9254273513 Facility Contact: STEVE GALLO Agency Name: MIRANT DELTA LLC Agency Address: PO BOX 192

Agency City, St, Zip: PITTSBURG 94565 Agency Contact: STEVE GALLO Agency Telephone: 9254273513 Agency Type: Private SIC Code: 4911 SIC Code 2: Not reported

Primary Waste: Cooling Water: Noncontact

Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to

water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Secondary Waste: Not reported Secondary Waste Type: Not reported

Design Flow: 450

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

# **CONTRA COSTA POWER PLT ANTIOCH (Continued)**

S102509496

**NPDES** 

**HIST CORTESE** 

Baseline Flow: 1000

Reclamation: No reclamation requirements associated with this facility.

POTW: The POTW Does not have an approved pretreatment program. Some POTWs

may have local pretreatment programs that have not been approved by

the regional board and/or EPA.

Treat To Water: Major Threat to Water Quality. A violation could render unusable a

> ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to

toxic substances.

Category A - Any major NPDES facility, any non-NPDES facility Complexity:

> (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility

(particularly those with toxicwastes) with numerous discharge points,

leak detection systems or ground water monitoring wells.

L50 ANTIOCH SVC CTR RCRA-SQG 1000195260 **WSW** 2111 HILLCREST AVE **FINDS** CAD981388275

1/4-1/2 ANTIOCH, CA 94509 0.421 mi.

2222 ft. Site 1 of 2 in cluster L **LUST** 

**CONTRA COSTA CO. SITE LIST** Relative: **HAZNET** Higher

RCRA-SQG:

Actual: Date form received by agency: 04/12/2004

46 ft. ANTIOCH SVC CTR Facility name: 2111 HILLCREST AVE

Facility address: ANTIOCH, CA 94509

EPA ID: CAD981388275 Mailing address: 4801 OAKPORT ST

BLDG 2

OAKLAND, CA 94601

LARRY DENISTON Contact:

Contact address: Not reported

Not reported Not reported Contact country: Contact telephone: (510) 437-2581 Contact email: Not reported

EPA Region:

Classification: Small Small Quantity Generator

Handler: generates more than 100 and less than 1000 kg of hazardous Description:

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: PG&E Owner/operator address: 77 BEALE ST

SAN FRANCISCO, CA 94105

Owner/operator country:

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Owner

Direction Distance

Elevation Site Database(s) EPA ID Number

**ANTIOCH SVC CTR (Continued)** 

1000195260

**EDR ID Number** 

Owner/Op start date: 01/01/1980
Owner/Op end date: Not reported

Owner/operator name: PG&E
Owner/operator address: Not reported
Not reported

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private Owner/Operator Type: Operator Owner/Op start date: 01/01/1980 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: Nο Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

Historical Generators:

Date form received by agency: 04/12/2004

Facility name: ANTIOCH SVC CTR
Classification: Small Quantity Generator

Date form received by agency: 10/12/2000

Facility name: ANTIOCH SVC CTR

Site name: ANTIOCH SERVICE CENTER Classification: Large Quantity Generator

Date form received by agency: 04/14/1990

Facility name: ANTIOCH SVC CTR

Site name: PG & E ANTIOCH SERVICE CENTER

Classification: Large Quantity Generator

Date form received by agency: 03/11/1986

Facility name: ANTIOCH SVC CTR

Site name: PG&E ANTIOCH SERVICE CENTER

Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

# **ANTIOCH SVC CTR (Continued)**

1000195260

**EDR ID Number** 

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D008 Waste name: LEAD

Waste code: D018
Waste name: BENZENE

Waste code: D039

Waste name: TETRACHLOROETHYLENE

Waste code: F002

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND

1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SPENT SOLVENT MIXTURES.

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED
SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR
MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL
BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110002427507

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Direction Distance Elevation

ation Site Database(s) EPA ID Number

# **ANTIOCH SVC CTR (Continued)**

1000195260

**EDR ID Number** 

#### HAZARDOUS WASTE BIENNIAL REPORTER

### CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

NPDES:

Npdes Number: CAS000002
Facility Status: Active
Agency Id: 0

Region: Not reported
Regulatory Measure Id: 420826
Order No: 2009-0009-DWQ

Regulatory Measure Type: Enrollee Place Id: Not reported 5S07C362432 WDID: Construction Program Type: Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 11/15/2011 Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported

Discharge Name: Pacific Gas and Electric Company

Discharge Address: 3401 Crow Canyon Road

Discharge City: San Ramon
Discharge State: California
Discharge Zip: 94583

CORTESE:

Region: CORTESE
Facility County Code: 7
Reg By: LTNKA
Reg Id: 3161

Region: CORTESE

Facility County Code: 7
Reg By: LTNKA
Reg Id: 070068

LUST:

Region: STATE
Global Id: T0601300787
Latitude: 37.9900239
Longitude: -121.7840515
Case Type: LUST Cleanup Site
Status: Completed - Case Closed

Status Date: 11/04/1992

Lead Agency: CONTRA COSTA COUNTY

Case Worker: BRU

Local Agency: CONTRA COSTA COUNTY

RB Case Number: 070068
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil

Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating

Site History: Not reported

Direction Distance Elevation

ion Site Database(s) EPA ID Number

# **ANTIOCH SVC CTR (Continued)**

1000195260

**EDR ID Number** 

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id: T0601300787

Contact Type: Regional Board Caseworker

Contact Name: PAT VELLINES

Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)

Address: 11020 SUN CENTER DRIVE #200

City: RANCHO CORDOVA

Email: pvellines@waterboards.ca.gov

Phone Number: Not reported

Global Id: T0601300787

Contact Type: Local Agency Caseworker

Contact Name: BRUCE BENIKI

Organization Name: CONTRA COSTA COUNTY

Address: Not reported
City: r5 UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:

 Global Id:
 T0601300787

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Discovery

 Global Id:
 T0601300787

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Reported

 Global Id:
 T0601300787

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Stopped

 Global Id:
 T0601300787

 Action Type:
 ENFORCEMENT

 Date:
 01/11/2000

 Action:
 Staff Letter

### CONTRA COSTA CO. SITE LIST:

Region: CONTRA COSTA

Facility ID: 724804
Tier: Not reported

Program Status: HWG, UST, Hmmp, AGT

Generator Fee Item: No

Inactive Date: Not reported

Region: CONTRA COSTA

Facility ID: 772446
Tier: Not reported
Program Status: HWG, Hmmp

Generator Fee Item: No

Direction Distance

Elevation Site Database(s) EPA ID Number

**ANTIOCH SVC CTR (Continued)** 

Inactive Date:

1000195260

**EDR ID Number** 

HAZNET:

Year: 2010

Gepaid: CAC002655590
Contact: DON GILBERT
Telephone: 9254156383
Mailing Name: Not reported

Mailing Address: 3401 CROW CANYON RD Mailing City, St, Zip: SAN RAMON, CA 94583

Not reported

Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported

Waste Category: Liquids with polychloronated biphenyls >= 50 Mg./L

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL (TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 2.23816 Facility County: Contra Costa

Year: 2010

Gepaid: CAC002655590
Contact: DON GILBERT
Telephone: 9254156383
Mailing Name: Not reported

Mailing Address: 3401 CROW CANYON RD Mailing City, St, Zip: SAN RAMON, CA 94583

Gen County: Not reported
TSD EPA ID: AZR000031823
TSD County: Not reported

Waste Category: Polychlorinated biphenyls and material containing PCBs

Disposal Method: OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION,

ORGANICS RECOVERY ECT

Tons: 3.47778 Facility County: Contra Costa

Year: 2010

Gepaid: CAC002655590
Contact: DON GILBERT
Telephone: 9254156383
Mailing Name: Not reported

Mailing Address: 3401 CROW CANYON RD Mailing City, St, Zip: SAN RAMON, CA 94583

Gen County: Not reported
TSD EPA ID: AZR000031823
TSD County: Not reported

Waste Category: Waste oil and mixed oil

Disposal Method: OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION,

ORGANICS RECOVERY ECT

Tons: 11.97 Facility County: Contra Costa

Year: 2010

Gepaid: CAC002655590
Contact: DON GILBERT
Telephone: 9254156383
Mailing Name: Not reported

Mailing Address: 3401 CROW CANYON RD

Direction Distance

Elevation Site Database(s) EPA ID Number

# **ANTIOCH SVC CTR (Continued)**

1000195260

**EDR ID Number** 

Mailing City, St, Zip: SAN RAMON, CA 94583

Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported

Waste Category: Liquids with polychloronated biphenyls >= 50 Mg./L

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL (TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 4.58983 Facility County: Contra Costa

L51 PG&E ANTIOCH SERVICE CENTER

LUST U003941115 UST N/A

**SWEEPS UST** 

2111 HILLCREST AVE ANTIOCH, CA 94509

1/4-1/2 0.421 mi.

wsw

2222 ft. Site 2 of 2 in cluster L

Relative: Higher LUST REG 5:

Region: 5

Status: Case Closed

Actual: 46 ft.

Case Number: 070068
Case Type: Soil only
Substance: MOTOR OIL
Staff Initials: PMV
Lead Agency: Local
Program: LUST
MTBE Code: N/A

UST:

Facility ID: 724804 Latitude: 38.00095 Longitude: -121.78753

SWEEPS UST:

Not reported Status: Comp Number: 24804 Not reported Number: Board Of Equalization: Not reported Ref Date: Not reported Act Date: Not reported Created Date: Not reported Tank Status: Not reported Not reported Owner Tank Id:

Swrcb Tank Id: 07-000-024804-000001

Actv Date: Not reported
Capacity: 6000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED

Number Of Tanks: 4

Status: Not reported Comp Number: 24804
Number: Not reported Board Of Equalization: Not reported Ref Date: Not reported Act Date: Not reported Created Date: Not reported

Direction
Distance

Elevation Site Database(s) EPA ID Number

# PG&E ANTIOCH SERVICE CENTER (Continued)

U003941115

**EDR ID Number** 

Tank Status: Not reported Owner Tank Id: Not reported

Swrcb Tank Id: 07-000-024804-000002

Actv Date: Not reported
Capacity: 6000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported 24804 Comp Number: Not reported Number: Board Of Equalization: Not reported Not reported Ref Date: Not reported Act Date: Created Date: Not reported Tank Status: Not reported Owner Tank Id: Not reported

Swrcb Tank Id: 07-000-024804-000003

Actv Date: Not reported
Capacity: 6000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported 24804 Comp Number: Number: Not reported Board Of Equalization: Not reported Ref Date: Not reported Act Date: Not reported Created Date: Not reported Not reported Tank Status: Owner Tank Id: Not reported

Swrcb Tank Id: 07-000-024804-000004

Actv Date: Not reported

Capacity: 500
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: A
Comp Number: 24804
Number: 1

 Board Of Equalization:
 44-008798

 Ref Date:
 06-24-92

 Act Date:
 06-24-92

 Created Date:
 07-22-88

 Tank Status:
 A

Owner Tank Id: Not reported

Swrcb Tank Id: 07-000-024804-000005

Actv Date: 11-25-91 Capacity: 1000 Tank Use: OIL

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# PG&E ANTIOCH SERVICE CENTER (Continued)

U003941115

Stg:

WASTE OIL Content:

Number Of Tanks: 3

Status: Α 24804 Comp Number: Number:

Board Of Equalization: 44-008798 Ref Date: 06-24-92 Act Date: 06-24-92 07-22-88 Created Date: Tank Status:

Not reported Owner Tank Id:

Swrcb Tank Id: 07-000-024804-000006

Actv Date: 06-24-92 Capacity: 12000 Tank Use: M.V. FUEL Stq: Content: **DIESEL** Number Of Tanks: Not reported

Status: Α Comp Number: 24804 Number: 44-008798 Board Of Equalization: Ref Date: 06-24-92 Act Date: 06-24-92 Created Date: 07-22-88 Tank Status:

Owner Tank Id: Not reported

Swrcb Tank Id: 07-000-024804-000007

Actv Date: 06-24-92 Capacity: 12000 Tank Use: M.V. FUEL

Stg:

**REG UNLEADED** Content: Number Of Tanks: Not reported

**PECKHAM PROPERTY** HIST CORTESE S104403147 3215 18TH ST E LUST N/A

**CONTRA COSTA CO. SITE LIST** 

1/4-1/2 ANTIOCH, CA 94509 0.465 mi. 2455 ft.

52

East

CORTESE: Relative:

CORTESE Lower Region:

Facility County Code: 7

Actual: **LTNKA** Reg By: 43 ft. 070057 Reg Id:

LUST:

Region: STATE T0601300779 Global Id: Latitude: 38.005953 Longitude: -121.760986 LUST Cleanup Site Case Type: Status: Completed - Case Closed

Direction Distance

Elevation Site Database(s) EPA ID Number

# PECKHAM PROPERTY (Continued)

S104403147

**EDR ID Number** 

Status Date: 01/27/1997

Lead Agency: CONTRA COSTA COUNTY

Case Worker: BRU

Local Agency: CONTRA COSTA COUNTY

RB Case Number: 070057
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id: T0601300779

Contact Type: Regional Board Caseworker

Contact Name: PAT VELLINES

Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)

Address: 11020 SUN CENTER DRIVE #200

City: RANCHO CORDOVA
Email: pvellines@waterboards.ca.gov

Phone Number: Not reported

Global Id: T0601300779

Contact Type: Local Agency Caseworker

Contact Name: BRUCE BENIKI

Organization Name: CONTRA COSTA COUNTY

Address: Not reported
City: r5 UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:

 Global Id:
 T0601300779

 Action Type:
 Other

 Date:
 01/01/1950

 Action:
 Leak Reported

LUST REG 5:

Region: 5

Status: Case Closed Case Number: 070057 Case Type: Soil only **GASOLINE** Substance: Staff Initials: PMV Lead Agency: Local LUST Program: MTBE Code: N/A

CONTRA COSTA CO. SITE LIST:

Region: CONTRA COSTA

Facility ID: 770782
Tier: Not reported
Program Status: UST

Generator Fee Item: No

Map ID Direction Distance Elevation

ation Site

Database(s)

EDR ID Number EPA ID Number

S104403147

1007739419

N/A

#### **PECKHAM PROPERTY (Continued)**

Inactive Date: 09/12/1990

\_\_\_\_

M53 CONTRA COSTA POWER PLANT

NE 3201 WILBUR AVENUE 1/4-1/2 ANTIOCH, CA 94509

0.494 mi.

2606 ft. Site 1 of 2 in cluster M

HAZNET ENVIROSTOR

**FINDS** 

**NPDES** 

**ENF** 

**CHMIRS** 

Relative:

Lower FINDS:

**Actual:** Registry ID: 110019003790 **11 ft.** 

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company

Map ID Direction Distance Elevation

Site

Database(s)

EDR ID Number EPA ID Number

#### **CONTRA COSTA POWER PLANT (Continued)**

1007739419

that generates electricity in the United States.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

#### **ELECTRIC GENERATOR**

HAZARDOUS WASTE BIENNIAL REPORTER

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

#### **GREENHOUSE GAS REPORTER**

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

CA0004863

Active

#### NPDES:

Npdes Number: Facility Status:

Discharge Zip:

Agency Id: 28896 Region: Not reported Regulatory Measure Id: 148182 R5-2001-0107 Order No: Regulatory Measure Type: **NPDES Permits** Place Id: 215588 WDID: 5B072014008 Program Type: **NPDES** Adoption Date Of Regulatory Measure: 04/27/2001 Effective Date Of Regulatory Measure: 04/27/2001 **Expiration Date Of Regulatory Measure:** 04/01/2006 Termination Date Of Regulatory Measure: Not reported Discharge Name: GenOn Energy Inc. Discharge Address: Po Box 192 Discharge City: Pittsburg Discharge State: CA

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0

Region: Not reported
Regulatory Measure Id: 198176
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported

94565

Map ID Direction Distance Elevation

vation Site Database(s) EPA ID Number

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

**EDR ID Number** 

WDID: 5S07I016482 Program Type: Industrial Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 04/24/2001 **Expiration Date Of Regulatory Measure:** Not reported Termination Date Of Regulatory Measure: 08/14/2007 Discharge Name: GenOn Energy Inc Discharge Address: PO Box 1687 Discharge City: Antioch Discharge State: California Discharge Zip: 94509

Npdes Number:CAS000002Facility Status:ActiveAgency Id:0

Region: Not reported Regulatory Measure Id: 410451

Order No:
Regulatory Measure Type:
Place Id:
WDID:
Program Type:
Adoption Date Of Regulatory Measure:

Effective Date Of Regulatory Measure:

O1/05/2011

Effective Date Of Regulatory Measure: 01/05/2011
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: GenOn Marsh Landing, LLC

Discharge Address: 3201-C Wilbur Avenue
Discharge City: Antioch
Discharge State: California
Discharge Zip: 94509

#### CHMIRS:

OES Incident Number: 11-5445

OES notification: 2011-09-13 16:08:00

OES Date: Not reported Not reported **OES Time:** Incident Date: Not reported Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported Not reported Special Studies 1: Special Studies 2: Not reported Special Studies 3: Not reported Special Studies 4: Not reported Special Studies 5: Not reported Special Studies 6: Not reported

More Than Two Substances Involved?:

Resp Agncy Personel # Of Decontaminated:
Responding Agency Personel # Of Injuries:
Responding Agency Personel # Of Fatalities:
Not reported
Not reported
Not reported

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **CONTRA COSTA POWER PLANT (Continued)**

1007739419

Others Number Of Decontaminated: Not reported Not reported Others Number Of Injuries: Others Number Of Fatalities: Not reported

Vehicle Make/year: Not reported Vehicle License Number: Not reported Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA/DOT/PUC/ICC Number: Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Not reported Comments: Facility Telephone: Not reported

Waterway Involved: Yes

Waterway: San Joaquin River Utilities/Substation Spill Site:

Cleanup By: Unknown Containment: Not reported What Happened: Not reported Type: Not reported Measure: Unknown Other: Not reported Date/Time: 700 Year: 2011 Agency: XXXX Incident Date: 9/13/2011

Admin Agency: Contra Costa County Health Services Department

Amount: Not reported

Contained: No

Site Type: San Joaquin River Not reported E Date: Substance: Construction Water

Quantity Released: Unknown BBLS: Not reported Not reported Cups: CUFT: Not reported Gallons: Not reported Grams: Not reported Pounds: Not reported Liters: Not reported Not reported Ounces: Pints: Not reported Quarts: Not reported Not reported Sheen: Not reported Tons: Not reported Unknown: Evacuations: Not reported Number of Injuries: Not reported Number of Fatalities: Not reported

Description: Caller states a power plant is being constructed. Caller states the

> new plant is running a six inch line across a berm into a spill way that releases into the San Joaquin River. Caller states this release

is not permitted.

ENF:

Region: 5S Facility Id: 215588

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

Agency Name: GenOn Energy Inc.

Place Type: Facility Place Subtype: Power Plant Facility Type: Industrial

Agency Type: **Privately-Owned Business** 

# Of Agencies:

Place Latitude: 38.0122769 -121.75892 Place Longitude: SIC Code 1: 4911

SIC Desc 1: **Electric Services** SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported Not reported NAICS Desc 3:

# Of Places:

Source Of Facility: Reg Meas Design Flow: 450 Threat To Water Quality: Complexity:

Pretreatment: X - Facility is not a POTW

Facility Waste Type: Designated cooling water: Noncontact

Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported Facility Waste Type 4: Not reported Program: NPDES # Of Programs:

WDID: 5B072014008 Reg Measure Id: 148182 NPDES Permits Reg Measure Type:

Region: 5S

Order #: R5-2001-0107 Npdes# CA#: CA0004863 Major-Minor: Major Npdes Type: OTH Reclamation: N - No Dredge Fill Fee: Not reported

301H:

Application Fee Amt Received: Not reported Status: Active Status Date: 01/05/2011 Effective Date: 04/27/2001 Expiration/Review Date: 04/01/2006 Termination Date: Not reported WDR Review - Amend: Not reported Not reported WDR Review - Revise/Renew: WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported

Status Enrollee: Ν Individual/General:

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

66 - NPDES Based on Flow Fee Code:

Direction/Voice: **Passive** Enforcement Id(EID): 376961 Region: 5S Order / Resolution Number: Not reported **Enforcement Action Type:** Notice of Violation

12/10/2010 Effective Date: 12/10/2010 Adoption/Issuance Date: Achieve Date: Not reported Termination Date: 12/10/2010 ACL Issuance Date: Not reported Not reported EPL Issuance Date: Status: Historical

Title: NOV 12/10/2010 for Mirant Delta LLC, Contra Costa Power Plant October 2010 SMR does not fully comply with the MRP requirements. Description:

Program: **NPDES** Latest Milestone Completion Date: Not reported

# Of Programs1: **Total Assessment Amount:** 0 Initial Assessed Amount: 0 Liability \$ Amount: n Project \$ Amount: 0 Liability \$ Paid: 0 Project \$ Completed: 0 Total \$ Paid/Completed Amount: 0

Region: 5S Facility Id: 215588

Agency Name: GenOn Energy Inc. Facility Place Type: Place Subtype: Power Plant Facility Type: Industrial

Agency Type: Privately-Owned Business

# Of Agencies:

Place Latitude: 38.0122769 Place Longitude: -121.75892 SIC Code 1: 4911

SIC Desc 1: **Electric Services** SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported # Of Places: Source Of Facility: Reg Meas Design Flow: 450

Threat To Water Quality: Complexity:

Pretreatment: X - Facility is not a POTW

Facility Waste Type: Designated cooling water: Noncontact

Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported

Direction
Distance

Elevation Site Database(s) EPA ID Number

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

**EDR ID Number** 

Facility Waste Type 4: Not reported Program: NPDES

# Of Programs:

WDID: 5B072014008
Reg Measure Id: 148182
Reg Measure Type: NPDES Permits

Region: 5S

 Order #:
 R5-2001-0107

 Npdes# CA#:
 CA0004863

 Major-Minor:
 Major

 Npdes Type:
 OTH

 Reclamation:
 N - No

 Dredge Fill Fee:
 Not reported

301H: N

Application Fee Amt Received: Not reported Status: Active Status Date: 01/05/2011 04/27/2001 Effective Date: Expiration/Review Date: 04/01/2006 Termination Date: Not reported WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported Not reported WDR Review - Pending: WDR Review - Planned: Not reported

Status Enrollee: N Individual/General: I

Fee Code: 66 - NPDES Based on Flow

Direction/Voice:PassiveEnforcement Id(EID):376671Region:5S

Order / Resolution Number: Not reported **Enforcement Action Type:** Notice of Violation 11/19/2010 Effective Date: Adoption/Issuance Date: 11/19/2010 Achieve Date: Not reported Termination Date: 11/19/2010 ACL Issuance Date: Not reported EPL Issuance Date: Not reported Status: Historical

Title: NOV 11/19/2010 for Mirant Delta LLC, Conra Costa Power Plant
Description: September 2010 SMR does not fully comply with the MRP requirements.

Program: NPDES
Latest Milestone Completion Date: Not reported

# Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

 Region:
 5S

 Facility Id:
 215588

Agency Name: GenOn Energy Inc.

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **CONTRA COSTA POWER PLANT (Continued)**

1007739419

Place Type: Facility Power Plant Place Subtype: Facility Type: Industrial

Agency Type: Privately-Owned Business

# Of Agencies:

Place Latitude: 38.0122769 Place Longitude: -121.75892 SIC Code 1: 4911

SIC Desc 1: **Electric Services** SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported Not reported NAICS Code 2: NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported

# Of Places:

Reg Meas Source Of Facility: Design Flow: 450 Threat To Water Quality: Complexity:

X - Facility is not a POTW Pretreatment:

Facility Waste Type: Designated cooling water: Noncontact

Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported Facility Waste Type 4: Not reported **NPDES** Program: # Of Programs:

WDID: 5B072014008 Reg Measure Id: 148182

Reg Measure Type: **NPDES Permits** 

Region: 5S

Order #: R5-2001-0107 Npdes# CA#: CA0004863 Major-Minor: Major Npdes Type: OTH Reclamation: N - No Dredge Fill Fee: Not reported

301H:

Application Fee Amt Received: Not reported Status: Active Status Date: 01/05/2011 04/27/2001 Effective Date: Expiration/Review Date: 04/01/2006 Termination Date: Not reported WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported Not reported WDR Review - Rescind: WDR Review - No Action Required: Not reported WDR Review - Pending: Not reported WDR Review - Planned: Not reported

Status Enrollee: Ν Individual/General:

Fee Code: 66 - NPDES Based on Flow

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

### **CONTRA COSTA POWER PLANT (Continued)**

1007739419

Direction/Voice: **Passive** 367493 Enforcement Id(EID): 5S Region:

Order / Resolution Number: Not reported **Enforcement Action Type:** Notice of Violation Effective Date: 06/01/2009 Adoption/Issuance Date: 06/01/2009 Achieve Date: Not reported **Termination Date:** 06/01/2009 ACL Issuance Date: Not reported EPL Issuance Date: Not reported Status: Historical

NOV 06/01/2009 for MIRANT DELTA LLC, CONTRA COSTA POWER PLT ANTIOCH Title:

Description: The outfall 001 effluent grab and composite sampling location is not

collected at the proper place.

**NPDES** Program: Latest Milestone Completion Date: Not reported

# Of Programs1: **Total Assessment Amount:** 0 Initial Assessed Amount: 0 Liability \$ Amount: n Project \$ Amount: 0 Liability \$ Paid: 0 Project \$ Completed: 0 Total \$ Paid/Completed Amount: 0

Region: 5S Facility Id: 215588

Agency Name: GenOn Energy Inc. Facility Place Type: Place Subtype: Power Plant Facility Type: Industrial

Agency Type: **Privately-Owned Business** 

# Of Agencies:

Place Latitude: 38.0122769 Place Longitude: -121.75892 SIC Code 1: 4911

SIC Desc 1: **Electric Services** SIC Code 2: Not reported SIC Desc 2: Not reported SIC Code 3: Not reported SIC Desc 3: Not reported NAICS Code 1: Not reported NAICS Desc 1: Not reported NAICS Code 2: Not reported NAICS Desc 2: Not reported NAICS Code 3: Not reported NAICS Desc 3: Not reported # Of Places: Source Of Facility: Reg Meas Design Flow: 450 Threat To Water Quality:

Pretreatment: X - Facility is not a POTW

Facility Waste Type: Designated cooling water: Noncontact

Facility Waste Type 2: Not reported Facility Waste Type 3: Not reported

Complexity:

Direction Distance

Elevation Site Database(s) EPA ID Number

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

**EDR ID Number** 

Facility Waste Type 4: Not reported Program: NPDES

# Of Programs: 1

 WDID:
 5B072014008

 Reg Measure Id:
 148182

 Reg Measure Type:
 NPDES Permits

 Region:
 5S

 Order #:
 R5-2001-0107

 Npdes# CA#:
 CA0004863

 Major-Minor:
 Major

 Npdes Type:
 OTH

 Reclamation:
 N - No

 Dredge Fill Fee:
 Not reported

301H: N

Application Fee Amt Received: Not reported Status: Active Status Date: 01/05/2011 04/27/2001 Effective Date: Expiration/Review Date: 04/01/2006 Termination Date: Not reported WDR Review - Amend: Not reported WDR Review - Revise/Renew: Not reported WDR Review - Rescind: Not reported WDR Review - No Action Required: Not reported Not reported WDR Review - Pending: Not reported

WDR Review - Planned: No Status Enrollee: No Individual/General: I

Fee Code: 66 - NPDES Based on Flow

Direction/Voice: Passive
Enforcement Id(EID): 354522
Region: 5S

Order / Resolution Number: Not reported

Enforcement Action Type: Staff Enforcement Letter

Effective Date: 10/07/2008
Adoption/Issuance Date: 10/07/2008
Achieve Date: Not reported
Termination Date: 10/07/2008
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical

Title: SEL 10/07/2008 for MIRANT DELTA LLC

Description: Not reported Program: NPDES Latest Milestone Completion Date: Not reported

# Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

HAZNET:

Year: 2010

Gepaid: CAT080011489

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

Contact: A F. RICCI, SR. ENVT'L ENGR

Telephone: 9254273554 Mailing Name: Not reported Mailing Address: PO BOX 192

Mailing City, St, Zip: PITTSBURG, CA 945650000

Gen County: Not reported TSD EPA ID: CAL000190080 TSD County: Not reported

Waste Category: Asbestos containing waste

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 31.2

Facility County: Contra Costa

Year: 2010

Gepaid: CAT080011489

Contact: A F. RICCI, SR. ENVT'L ENGR

Telephone: 9254273554 Mailing Name: Not reported PO BOX 192 Mailing Address:

Mailing City, St, Zip: PITTSBURG, CA 945650000

Gen County: Not reported TSD EPA ID: CAD980675276 TSD County: Not reported

Waste Category: Other inorganic solid waste

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons: 8.428 Facility County: Contra Costa

2010 Year:

Gepaid: CAT080011489

Contact: A F. RICCI, SR. ENVT'L ENGR

Telephone: 9254273554 Mailing Name: Not reported Mailing Address: PO BOX 192

Mailing City, St, Zip: PITTSBURG, CA 945650000

Gen County: Not reported CAD980887418 TSD EPA ID: TSD County: Not reported

Waste Category: Waste oil and mixed oil

Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY

(H010-H129) OR (H131-H135)

Tons: 2.793 Contra Costa Facility County:

Year: 2010

Gepaid: CAT080011489

Contact: A F. RICCI, SR. ENVT'L ENGR

Telephone: 9254273554 Mailing Name: Not reported PO BOX 192 Mailing Address:

Mailing City, St, Zip: PITTSBURG, CA 945650000

Gen County: Not reported TSD EPA ID: CAL000190080 TSD County: Not reported

Waste Category: Asbestos containing waste

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO Disposal Method:

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

7.6 Tons:

Facility County: Contra Costa

Year: 2010

CAT080011489 Gepaid:

A F. RICCI, SR. ENVT'L ENGR Contact:

Telephone: 9254273554 Mailing Name: Not reported PO BOX 192 Mailing Address:

Mailing City, St, Zip: PITTSBURG, CA 945650000

Gen County: Not reported TSD EPA ID: CAL000190080 TSD County: Not reported

Waste Category: Asbestos containing waste

Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO

INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)

Tons:

Facility County: Contra Costa

> Click this hyperlink while viewing on your computer to access 144 additional CA\_HAZNET: record(s) in the EDR Site Report.

**ENVIROSTOR:** 

Site Type: Tiered Permit Site Type Detailed: **Tiered Permit** Acres: Not reported

NPL: NO

NONE SPECIFIED Regulatory Agencies: Lead Agency: NONE SPECIFIED Program Manager: Not reported Supervisor: Not reported Cleanup Berkeley Division Branch: 71003523 Facility ID: Site Code: Not reported Assembly: 11

Senate: 07

Special Program: Not reported Status: Refer: Other Agency

Status Date: Not reported

Restricted Use:

Site Mgmt. Req.: NONE SPECIFIED Funding: Not reported Latitude: 38.01344 -121.7619 Longitude: APN: NONE SPECIFIED NONE SPECIFIED Past Use:

NONE SPECIFIED Potential COC: Confirmed COC: NONE SPECIFIED Potential Description: NONE SPECIFIED Alias Name: CAT080011489

Alias Type: **EPA Identification Number** 

Alias Name: 71003523

Alias Type: **Envirostor ID Number** 

Completed Info:

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### **CONTRA COSTA POWER PLANT (Continued)**

1007739419

Completed Area Name: Not reported Completed Sub Area Name: Not reported Completed Document Type: Not reported Completed Date: Not reported Comments: Not reported

Future Area Name: Not reported Future Sub Area Name: Not reported Not reported Future Document Type: Future Due Date: Not reported Schedule Area Name: Not reported Not reported Schedule Sub Area Name: Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

Corrective Action Site Type: Site Type Detailed: Corrective Action

Acres: 168.56 NPL: NO Regulatory Agencies: **SMBRP** Lead Agency: WM

Program Manager: Tony Natera Supervisor: **Daniel Murphy** Division Branch: Cleanup Berkeley 80001830 Facility ID:

Site Code: 200423 Assembly: 11 07 Senate:

Special Program: Not reported Status: Active Status Date: 02/04/2010

Restricted Use: NO

Site Mgmt. Req.: NONE SPECIFIED Funding: Not reported 38.01453 Latitude: Longitude: -121.7618

APN: 051031015, 051031016, 051031018, 051031019

ABOVE GROUND STORAGE TANKS, WASTE WATER PONDS Past Use: Potential COC: 30001, 30005, 30013, 30018, 30024, 30025, 3002502, 30156, 30407,

30472, 30478, 30594

Confirmed COC: 30001,30005,30013-NO,30024,30025,30472,30156,30594,30407,3002502,

30478,30018

CSS, OTH, SED, SOIL, SURFW Potential Description: Contra Costa Power Plant Alias Name:

Alias Type: Alternate Name

Alias Name: GenOn

Alias Type: Alternate Name Alias Name: GenOn Energy, Inc. Alias Type: Alternate Name Alias Name: GenOn Energy, Inc. Alias Type: Alternate Name Alias Name: Mirant LLC Alias Type: Alternate Name

Alias Name: PG&E Contra Costa Power Plant

Alias Type: Alternate Name Alias Name: 051031015

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

**EDR ID Number** 

 Alias Type:
 APN

 Alias Name:
 051031016

 Alias Type:
 APN

 Alias Name:
 051031018

 Alias Type:
 APN

 Alias Name:
 051031019

 Alias Type:
 APN

Alias Name: CAT080011489

Alias Type: EPA Identification Number

Alias Name: 200423

Alias Type: Project Code (Site Code)

Alias Name: 80001830

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Assessment Report

Completed Date: 12/01/1986
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Assessment Report

Completed Date: 12/01/1986 Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/21/2009
Comments: Not reported

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported Completed Document Type: RFI Workplan O5/13/2010

Comments: Workplan has been revised and approved.

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported Completed Document Type: RFI Report Completed Date: 11/17/2010

Comments: Investigation Report is completed. includes data from most of the

entire site history.

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported

Completed Document Type: Corrective Measures Study Report

Completed Date: 10/18/2010

Comments: Document approved internally, public comment period ends 10/19/2010.

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported Completed Document Type: Fact Sheets Completed Date: 10/14/2010

Comments: Public comment period begins October 18 and ends November 19.

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

**EDR ID Number** 

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported Completed Document Type: Public Notice Completed Date: 10/14/2010

Comments: Public Comment period to begin October 18 and end November 19

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported

Completed Document Type: Corrective Measure Implementation Workplan

Completed Date: 02/14/2011

Comments: Approved with conditions including APPROVAL FOR SOIL REMEDIATION ONLY

with provision to address groundwater contamination during site wide

remediation to be done at a later time.

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan

Completed Date: 02/01/2011

Comments: Plan reviewed as requested and approved by DTSC Industrial Hygienist

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/23/1997

Comments: 22 potential issues are identified, a Phase II ESA is recommended.

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Responsible Agency Review

Completed Date: 02/10/2011

Comments: NOD based on functionally equivalent EIR prepared by the California

Energy Commission.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 10/10/2011

Comments: Estimate approved by RP

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)

Completed Date: 04/06/1981

Comments: First Interim Status Document in Record

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported

Completed Document Type: Corrective Action Completion Determination

Completed Date: 07/14/2011 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Corrective Action Completion Determination

Completed Date: 05/18/1988

Comments: Certification of clean closure of the two surface impoundments at the

facility.

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

# **CONTRA COSTA POWER PLANT (Continued)**

1007739419

**EDR ID Number** 

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 06/30/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: No Further Action Letter

Completed Date: 06/02/1995

Comments: This letter certified the clean closure of all remaining waste

management units subject to permitting.

Completed Area Name: PROJECT WIDE

Completed Sub Area Name: Not reported

Completed Document Type: Consent Agreement

Completed Date: 02/02/2011

Comments: Facility Initiated Corrective Action Consent Agreement signed by DTSC

and PG&E

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)

Completed Date: 02/24/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 09/15/1989
Comments: Not reported

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Responsible Agency Review

Completed Date: 10/18/2010

Comments: Statement of Findings made public on 10/18/2010 Notice of

Determination will be filed after project approval before the end of

November 2010.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: RCRA Facility Assessment Report

Completed Date: 09/24/1986

Comments: RFA Uploaded by FAST

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 10/01/2010

Comments: Scheduled and estimate reviewed and approved by RP and mailed to them.

Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/01/1998

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

# CONTRA COSTA POWER PLANT (Continued)

1007739419

**EDR ID Number** 

Comments: Phase II independently prepared by PG&E prior to seel of portions of

the facility in 1999.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/31/1986

Comments: Closure Plan Approved under additional modifications and conditions

imposed by DTSC in the approval letter.

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported

Completed Document Type: Remedial Action Completion Report

Completed Date: 06/29/2011

Comments: Report approval completes cleanup OF SOIL within the MLGS area.

Groundwater will be addressed by site-wide remediation.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Assessment Report

Completed Date: 04/20/2012 Comments: Not reported

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/14/2009

Comments: Report analysis impacts of operating production wells to provide

water for the proposed power plant.

Completed Area Name: GenOn Marsh Landing Generating Station

Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/11/2011

Comments: Letter by consultant PES Environmental to CEC Compliance and Dockets

Office argues that allowing Genon to install and use wells will have deleterious impacts on groundwater in the area, will compound already existing contamination and will compromise remediation efforts taking

place to address groundwater contamination in the area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/24/2012
Comments: Not reported

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Corrective Measure Implementation Workplan

Future Due Date: 2014
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Plan

Future Due Date: 2015

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Fact Sheets

Direction Distance

Elevation Site Database(s) EPA ID Number

## **CONTRA COSTA POWER PLANT (Continued)**

1007739419

**EDR ID Number** 

Future Due Date: 2014

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Public Notice

Future Due Date: 2014

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Corrective Measures Study Report

Future Due Date: 2014

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: RFI Workplan

Future Due Date: 2012

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2016

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2017

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2018

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2019

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2020

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Remedial Action Completion Report

Future Due Date: 2015

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: RFI Report
Future Due Date: 2013

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2015

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2015

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2015

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Corrective Action Completion Determination

Future Due Date: 2015

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

## **CONTRA COSTA POWER PLANT (Continued)**

1007739419

1000196257

CAT080011489

RCRA-TSDF

**CORRACTS** 

RCRA-LQG

**RAATS** WDS

**CERC-NFRAP** 

2020 CORRECTIVE ACTION

**FINANCIAL ASSURANCE** 

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

CEQA - Initial Study/ Neg. Declaration Future Document Type:

Future Due Date: 2014

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Remedy Selection and Statement of Basis

Future Due Date: 2014

PROJECT WIDE Future Area Name: Future Sub Area Name: Not reported Land Use Restriction Future Document Type:

Future Due Date: 2015

Schedule Area Name: Not reported Schedule Sub Area Name: Not reported Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

**CONTRA COSTA POWER PLANT** M54

NE **3201 WILBUR AVENUE** 

1/4-1/2 ANTIOCH, CA

0.494 mi.

Lower

2606 ft. Site 2 of 2 in cluster M

Relative:

Actual: RCRA-TSDF: 11 ft.

Date form received by agency: 02/18/2010 CONTRA COSTA POWER PLANT Facility name:

Facility address: 3201 WILBUR AVENUE

ANTIOCH, CA 94509

CAT080011489 EPA ID: WILBUR AVENUE Mailing address: ANTIOCH, CA 94509

Contact: ANDREA F RICCI Contact address: WILBUR AVENUE ANTIOCH, CA 94509

Not reported Contact country: Contact telephone: (925) 427-3554

Contact email: ANDREA.RICCI@MIRANT.COM

EPA Region: 09 Land type: Private Classification: **TSDF** 

Description: Handler is engaged in the treatment, storage or disposal of hazardous

Classification: Large Quantity Generator

Handler: generates 1,000 kg or more of hazardous waste during any Description:

calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

hazardous waste during any calendar month, and accumulates more than

Direction Distance Elevation

ion Site Database(s) EPA ID Number

#### **CONTRA COSTA POWER PLANT (Continued)**

1000196257

**EDR ID Number** 

100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: MIRANT DELTA, LLC

Owner/operator address: Not reported

Not reported

Owner/operator country: US

Owner/operator telephone: Not reported Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/16/1999
Owner/Op end date: Not reported

Owner/operator name: MIRANT DELTA, LLC
Owner/operator address: WILBUR AVENUE

ANTIOCH, CA 94509

Owner/operator country: Not reported
Owner/operator telephone: (925) 427-3554

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/16/1999
Owner/Op end date: Not reported

Owner/operator name: MIRANT DELTA, LLC

Owner/operator address: Not reported

Not reported Not reported

Owner/operator telephone: Not reported Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/16/1999
Owner/Op end date: Not reported

Owner/operator name: MIRANT DELTA, LLC
Owner/operator address: PO BOX 1687

ANTIOCH, CA 94509

Owner/operator country: US

Owner/operator country:

Owner/operator telephone: Not reported Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/16/1999
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No No Treater, storer or disposer of HW: Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No

Direction Distance

Elevation Site Database(s) EPA ID Number

CONTRA COSTA POWER PLANT (Continued)

1000196257

**EDR ID Number** 

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

**Historical Generators:** 

Date form received by agency: 02/13/2006

Facility name: CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Date form received by agency: 02/13/2006

Facility name: CONTRA COSTA POWER PLANT

Classification: Small Quantity Generator

Date form received by agency: 04/12/2001

Facility name: CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Date form received by agency: 04/15/1999

Facility name: CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Date form received by agency: 09/01/1996

Facility name: CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Date form received by agency: 02/22/1996

Facility name: CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Date form received by agency: 03/29/1994

Facility name: CONTRA COSTA POWER PLANT

Site name: PG&E CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Date form received by agency: 04/11/1990

Facility name: CONTRA COSTA POWER PLANT
Site name: PG&E CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Date form received by agency: 08/18/1980

Facility name: CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Date form received by agency: 08/18/1980

Facility name: CONTRA COSTA POWER PLANT

Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: 121

Waste name: 121

Waste code: 122 Waste name: 122

Waste code: 134

Direction
Distance
Elevation

Site Database(s) EPA ID Number

## **CONTRA COSTA POWER PLANT (Continued)**

1000196257

**EDR ID Number** 

Waste code: Waste name:	141 141
Waste code: Waste name:	181 181
Waste code: Waste name:	212 212
Waste code: Waste name:	214 214
Waste code: Waste name:	223 223
Waste code: Waste name:	291 291
Waste code: Waste name:	331 331
Waste code: Waste name:	343 343
Waste code: Waste name:	352 352
Waste code: Waste name:	513 513
Waste code: Waste name:	551 551
Waste code: Waste name:	611 611
Waste code: Waste name:	725 725
Waste code: Waste name:	792 792
Waste code: Waste name:	801 801
Waste code:	D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A

Direction Distance Elevation

ion Site Database(s) EPA ID Number

## **CONTRA COSTA POWER PLANT (Continued)**

1000196257

**EDR ID Number** 

CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

Waste code: D007

Waste name: CHROMIUM

Waste code: D008 Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D018
Waste name: BENZENE

Waste code: D035

Waste name: METHYL ETHYL KETONE

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT
MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT
NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS
CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED
SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR
MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL
BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2011

Annual Waste Handled:

Waste code: D00

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Direction Distance

**EDR ID Number** Elevation **EPA ID Number** Site Database(s)

## **CONTRA COSTA POWER PLANT (Continued)**

1000196257

Amount (Lbs): 1988

D002 Waste code:

A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS Waste name:

> CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 9911

Waste code: D006 **CADMIUM** Waste name: Amount (Lbs): 5009

D007 Waste code:

Waste name: **CHROMIUM** Amount (Lbs): 13179

Waste code: D008 Waste name: **LEAD** Amount (Lbs): 5185

Waste code: D009 **MERCURY** Waste name:

Amount (Lbs): 73

Waste code: D018 **BENZENE** Waste name: Amount (Lbs): 14

Waste code: D035

Waste name: METHYL ETHYL KETONE

Amount (Lbs): 261

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

MIXTURES.

Amount (Lbs): 1529

F005 Waste code:

THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL Waste name:

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Direction Distance

Elevation Site Database(s) EPA ID Number

## **CONTRA COSTA POWER PLANT (Continued)**

1000196257

**EDR ID Number** 

Amount (Lbs): 128

Corrective Action Summary:

Event date: 12/01/1986 Event: CA049PA

Event date: 12/01/1986 Event: CA029EP

Event date: 12/01/1986 Event: CA049SI

Event date: 12/01/1986 Event: CA074LO

Event date: 12/01/1986

Event: CA Prioritization, Facility or area was assigned a low corrective

action priority.

Event date: 02/24/1989 Event: CA022

Facility Has Received Notices of Violations:

Regulation violated: F - 264.140-150.H

Area of violation: TSD - Financial Requirements

Date violation determined: 06/24/1992
Date achieved compliance: 10/13/1992
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported

Enforcement action date:

Enf. disposition status:

Enf. disp. status date:

Enforcement lead agency:

Proposed penalty amount:

Final penalty amount:

Paid penalty amount:

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 02/23/1989
Date achieved compliance: 08/05/1991
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 04/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F

Area of violation: TSD IS-Ground-Water Monitoring

Date violation determined: 12/08/1987
Date achieved compliance: 01/18/1988

Direction Distance Elevation

Site Database(s) EPA ID Number

#### **CONTRA COSTA POWER PLANT (Continued)**

1000196257

**EDR ID Number** 

Violation lead agency: State

Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL

Enforcement action date: 03/27/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F

Area of violation: TSD IS-Ground-Water Monitoring

Date violation determined: 12/08/1987
Date achieved compliance: 01/18/1988
Violation lead agency: State

Enforcement action: FINAL 3008(H) I.S. CA ORDER

Enforcement action date: 09/15/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

Proposed penalty amount: Not reported Final penalty amount: Not reported Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/24/1987
Date achieved compliance: 01/18/1988
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 01/08/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/25/1986
Date achieved compliance: 08/05/1991
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/12/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

**Evaluation Action Summary:** 

Evaluation date: 01/07/2010

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported Date achieved compliance: Not reported

MAP FINDINGS

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

## **CONTRA COSTA POWER PLANT (Continued)**

1000196257

**EDR ID Number** 

Evaluation lead agency: State

Evaluation date: 01/27/2009

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 06/24/1992

Evaluation: FINANCIAL RECORD REVIEW Area of violation: TSD - Financial Requirements

Date achieved compliance: 10/13/1992

Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 09/27/1991

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 02/23/1989

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 08/05/1991 Evaluation lead agency: State

Evaluation date: 02/16/1989

Evaluation: FINANCIAL RECORD REVIEW

Area of violation:

Date achieved compliance:

Evaluation lead agency:

Not reported

Not reported

State

Evaluation date: 12/08/1987

Evaluation: GROUNDWATER MONITORING EVALUATION

Area of violation: TSD IS-Ground-Water Monitoring

Date achieved compliance: 01/18/1988 Evaluation lead agency: State

Evaluation date: 11/24/1987

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 01/18/1988 Evaluation lead agency: State

Evaluation date: 11/09/1987

Evaluation: FINANCIAL RECORD REVIEW

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/25/1986

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: TSD - General Date achieved compliance: 08/05/1991 Evaluation lead agency: State

CERC-NFRAP:

Site ID: 0902670

Direction Distance

Elevation Site Database(s) EPA ID Number

## **CONTRA COSTA POWER PLANT (Continued)**

1000196257

**EDR ID Number** 

Federal Facility: Not a Federal Facility NPL Status: Not on the NPL

Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Site Contact Details:** 

Contact Sequence ID: 13054772.00000
Person ID: 9271184.00000

Contact Sequence ID: 13290438.00000
Person ID: 13003854.00000

Contact Sequence ID: 13296033.00000
Person ID: 13003858.00000

Contact Sequence ID: 13301891.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: PG&E

Alias Address: SW 1 1/4 SEC 16 T2N R2E

ANTIOCH, CA 94509

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 10/01/1979
Priority Level: Not reported

Action: RESOURCE CONSERVATION AND RECOVERY ACT FACILITY ASSESSMENT

Date Started: Not reported
Date Completed: 09/25/1986
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT

Date Started: Not reported
Date Completed: 12/01/1986

Priority Level: Low priority for further assessment

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 12/01/1986

Priority Level: Higher priority for further assessment

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 10/11/1991

Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 10/11/1991
Priority Level: Not reported

CORRACTS:

Direction Distance

Elevation Site Database(s) EPA ID Number

## **CONTRA COSTA POWER PLANT (Continued)**

1000196257

**EDR ID Number** 

EPA ID: CAT080011489

EPA Region: 09

Area Name: ENTIRE FACILITY
Actual Date: 12/01/1986

Action: CA075LO - CA Prioritization, Facility or area was assigned a low

corrective action priority

NAICS Code(s): 221112

Fossil Fuel Electric Power Generation

Original schedule date: Not reported Schedule end date: Not reported

CA WDS:

Facility ID: 5S 07I016482

Facility Type: Industrial - Facility that treats and/or disposes of liquid or

semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water

pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is

under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7

are assigned by the Regional Board

Subregion: 0

Facility Telephone: 9257796500
Facility Contact: STEVE BAUMAN
Agency Name: MIRANT DELTA LLC
Agency Address: 3201 WILBUR AVE
Agency City,St,Zip: ANTIOCH 945090024
Agency Contact: STEVEN BAUMAN

Agency Telephone: 9257796500

Agency Type: ? SIC Code: 0

SIC Code 2: Not reported Primary Waste: Not reported Primary Waste Type: Not reported Secondary Waste: Not reported Secondary Waste Type: Not reported

Design Flow: 0
Baseline Flow: 0

Reclamation: Not reported POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order

should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to

represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as

cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

dairy waste ponds.

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **CONTRA COSTA POWER PLANT (Continued)**

1000196257

S106152506

N/A

**VCP** 

**ENVIROSTOR** 

2020 CORRECTIVE ACTION:

CAT080011489 EPA ID:

Region:

Action: Not reported

CA FINANCIAL ASSURANCE 1:

CAT080011489 EPA ID Number:

Closure Mechanism: Ins Closure Amount: 81,335 Not reported Post Clousure Mechanism: Post Clousure Amount: Not reported Not reported Corrective Action Mechanism: Corrective Action Amount: Not reported

Sudden Mecahanism Type: Ins Sudden Mecahanism Amount: 8,000,000 Non Sudden Mecahanism Type: Ins Non Sudden Mecahanism Amount: 8,000,000

**SOCCER FIELDS NPDES** 55 WNW 1030 APOLLO CT **DEED** 

1/2-1 0.501 mi. 2647 ft.

NPDES: Relative:

ANTIOCH, CA 94509

Npdes Number: CAS000002 Higher Facility Status: Terminated

Actual: Agency Id: 0 54 ft. Region: 2

> Regulatory Measure Id: 319395

2009-0009-DWQ Order No: Regulatory Measure Type: Enrollee Place Id: Not reported WDID: 2 07C345436

Program Type: Construction Adoption Date Of Regulatory Measure: Not reported 01/24/2007 Effective Date Of Regulatory Measure: Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: 07/08/2010

Discharge Name: Antioch Youth Sports Complex Inc Discharge Address: 1030 Apollo Ct & PO Box 156

Discharge City: Antioch Discharge State: California Discharge Zip: 94509

DEED:

RECREATIONAL TRACT Area:

Sub Area: Not reported

Site Type: **VOLUNTARY CLEANUP** 

**CERTIFIED / OPERATION & MAINTENANCE** Status:

Deed Date(s): 06/30/2005

VCP:

07790001 Facility ID: Site Type: Voluntary Cleanup Site Type Detail: Voluntary Cleanup MAP FINDINGS

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

#### SOCCER FIELDS (Continued)

S106152506

**EDR ID Number** 

Site Mgmt. Req.: ASP, FOUN, DAY, ELD, HOS, LUC, NOWN, NUSE, SCH, RES

Acres: 30 National Priorities List: NO

Cleanup Oversight Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY

Lead Agency: SMBRP

Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program

Project Manager: Milly Pekke
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley

 Site Code:
 201532

 Assembly:
 11

 Senate:
 07

Special Programs Code: Designation of Single Agency
Status: Certified / Operation & Maintenance

Status Date: 06/30/2005 Restricted Use: YES

Funding: Responsible Party Lat/Long: 38.01137 / -121.7866

APN: 051100030, 051100030-9, 051100032

Past Use: MANUFACTURING - PAPER, AGRICULTURAL - ORCHARD

Potential COC: 30009, 30009
Confirmed COC: 30009, , ,30009
Potential Description: SOIL. SOIL

Alias Name: AGRICULTURAL TRACT

Alias Type: Alternate Name

Alias Name: RECREATIONAL TRACT
Alias Type: Alternate Name

Alias Type: Alias Name: 051100030 Alias Type: APN Alias Name: 051100030-9 Alias Type: APN Alias Name: 051100032 Alias Type: APN Alias Name: 07010012 Former Project ID Alias Type: 110033606435 Alias Name: EPA (FRS#) Alias Type: Alias Name: 110033613999 Alias Type: EPA (FRS#)

Alias Type: Project Code (Site Code)

Alias Name: 07790001

Alias Type: Envirostor ID Number

Completed Info:

Alias Name:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Land Use Restriction - Site Inspection/Visit

201532

Completed Date: 06/29/2006 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Land Use Restriction - Site Inspection/Visit

Completed Date: 07/31/2007 Comments: Not reported

Completed Area Name: PROJECT WIDE

MAP FINDINGS

Map ID Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

#### **SOCCER FIELDS (Continued)**

S106152506

Completed Sub Area Name: Not reported Completed Document Type: Certification Completed Date: 06/30/2005

Comments: Subject to compliance with the conditions in the Deed Restriction and

Operation and Maintenance Agreement, DTSC has determined that the Site should not pose a threat to human health or the environment and

certified the site under the Site Designation process.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

Completed Date: 06/08/2005 Comments: Not reported

Completed Area Name: Recreational Tract
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction

Completed Date: 06/30/2005

Comments: A deed restriction was executed and recorded to preclude future

development for sensitive uses such as residential housing, hospitals, schools or day care centers and requiring operation and

maintenance of the parking lot.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill

Completed Area Name: PROJECT WIDE

Completed Sub Area Name: Not reported

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: Held site conference pursuant to H&SC Section 25398.2.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Operation & Maintenance Order/Agreement

Completed Date: 06/28/2005

Comments: Operation and Maintenance Agreement signed with the Antioch Youth

Sports Council for maintenance of the parking lot area and to ensure

compliance with the deed restriction requirements.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 09/23/2011
Comments: Not reported

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

**SOCCER FIELDS (Continued)** 

S106152506

Completed Area Name: **PROJECT WIDE** Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 10/01/2010

Comments: Schedule and Estimate sent to RP representative, disucssed with the

RP and adjusted as needed. Final copy mailed to RP October 1, 2010.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Land Use Restriction Monitoring Report

Completed Date: 06/29/2010

Comments: Inspection report found cracks on cap and a number of administrative

violations of the Land Use Covenant and the O&M Agreement.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Land Use Restriction Monitoring Report Completed Document Type:

Completed Date: 06/29/2011

Comments: Completed the report on June 09, 2011.

Completed Area Name: Recreational Tract Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 06/09/2005

Comments: The PEA evaluated the chemical levels detected in soil and identified

potential health risks only if these tracts were developed for

residential and other sensitive uses. Recreational use was evaluated and determined to be safe. Therefore, the PEA recommended placement of a deed restriction to ensure future development does not include sensitive uses such as residential housing, hospitals, schools or day care centers. The PEA further found that dioxin in the Sierra-Crete< used as base material beneath the parking lot could pose a potential risk to human health if the asphalt parking lot preventing extended direct contact with this material were removed. Therefore, the PEA recommended maintenance of the parking lot through a deed restriction and an operation and maintenance agreement. The PEA was put out for public comment, along with the draft deed restriction and Notice of Exemption from April 20, 2005 to May 20, 2005. No comments were

received and the PEA was approved.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: 5 Year Review Reports

Completed Date: 06/29/2010 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Community Profile Completed Date: 10/25/2004

Comments: Public Participation Plan approved that addresses nine Gaylord Mill

and Non-Mill Sites in Antioch.

Completed Area Name: **PROJECT WIDE** Completed Sub Area Name: Not reported Completed Document Type: **Fact Sheets** Completed Date: 04/18/2005

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

#### **SOCCER FIELDS (Continued)**

S106152506

Comments: Based on the results of the PEA, a legal document called a Deed

> Restriction will be recorded for the Agricultural and Recreational Tracts. The Deed Restriction will place limits and requirements on future use of these properties. An Operation and Maintenance (O&M)

Plan was developed for maintaining the parking area on the

Recreational Tract.

Completed Area Name: Recreational Tract Completed Sub Area Name: Not reported Completed Document Type: Phase 1 Completed Date: 09/30/2002

Phase I Environmental Site Assessment submitted when Voluntary Comments:

Cleanup Agreement signed. Document reviewed as part of PEA Workplan

Completed Area Name: **PROJECT WIDE** Not reported Completed Sub Area Name: Completed Document Type: **Public Notice** Completed Date: 06/29/2010 Comments: Not reported

Completed Area Name: **PROJECT WIDE** Completed Sub Area Name: Not reported Completed Document Type: Other Report Completed Date: 09/03/2010 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Operations and Maintenance Report

Completed Date: 01/18/2011 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Operations and Maintenance Report

Completed Date: 01/26/2012 Comments: Not reported

Completed Area Name: Agricultural Tract Completed Sub Area Name: Not reported Completed Document Type: Other Report Completed Date: 06/30/2003

Phase II ESA Report submitted once site entered into Voluntary Comments:

Cleanup Program. Report was reviewed as part of the review of the

PEA Workplan.

Completed Area Name: Agricultural Tract Completed Sub Area Name: Not reported

Preliminary Endangerment Assessment Report Completed Document Type:

Completed Date: 06/09/2005

Comments: Preliminary Endangerment Assessment (PEA) approved. The PEA evaluated

the chemical levels detected in soil. Sampling did not detect a hazardous substance release in soil on the northern Almond Orchard parcel that could pose a significant threat to public health or the environment. Therefore, the PEA recommended no further action for the northern Almond Orchard parcel. The PEA identified potential

Map ID Direction Distance Elevation

Site Database(s) EPA ID Number

## **SOCCER FIELDS (Continued)**

S106152506

**EDR ID Number** 

health risks for the Agricultural parcel only if these tracts were developed for residential or other sensitive uses. Recreational use was evaluated and determined to be safe. Therefore, the PEA recommended placement of a deed restriction on the Agricultural parcel to ensure that future development does not include sensitive uses such as residential housing, hospitals, schools or day care centers. The PEA was put out for public comment, along with the draft deed restriction and Notice of Exemption from April 20, 2005 to May 20, 2005. No comments were received and the PEA was approved.

Completed Area Name: Agricultural Tract
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/30/2002

Comments: 9/2002 Phase I Environmental Site Assessment document submitted once

the site entered into the Voluntary Cleanup Program. Document was

reviewed as part of the PEA Workplan.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Long Term Monitoring Report

Completed Date: 05/11/2010
Comments: Not reported

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: 5 Year Review Reports

Future Due Date: 2015

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2013

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2014
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:

Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup

Acres: 30 NPL: NO

Regulatory Agencies: SMBRP, RWQCB 5S - Central Valley, CONTRA COSTA COUNTY

Lead Agency: SMBRP
Program Manager: Milly Pekke
Supervisor: Daniel Murphy
Division Branch: Cleanup Berkeley
Facility ID: 07790001

Site Code: 201532
Assembly: 11
Senate: 07

Special Program: Designation of Single Agency

MAP FINDINGS

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

#### **SOCCER FIELDS (Continued)**

S106152506

**EDR ID Number** 

Status: Certified / Operation & Maintenance

Status Date: 06/30/2005 Restricted Use: YES

Site Mgmt. Req.: ASP, FOUN, DAY, ELD, HOS, LUC, NOWN, NUSE, SCH, RES

Funding: Responsible Party
Latitude: 38.01137
Longitude: -121.7866

APN: 051100030, 051100030-9, 051100032

Past Use: MANUFACTURING - PAPER, AGRICULTURAL - ORCHARD

Potential COC: 30009, 30009 Confirmed COC: 30009,, 30009 Potential Description: SOIL, SOIL

Alias Name: AGRICULTURAL TRACT

Alias Type: Alternate Name

Alias Name: RECREATIONAL TRACT

 Alias Type:
 Alternate Name

 Alias Name:
 051100030

 Alias Type:
 APN

 Alias Name:
 051100030-9

 Alias Type:
 APN

 Alias Name:
 051100032

 Alias Type:
 APN

 Alias Name:
 07010012

 Alias Type:
 Former Project ID

 Alias Name:
 110033606435

 Alias Type:
 EPA (FRS #)

 Alias Type:
 EPA (FRS #)

 Alias Name:
 110033613999

 Alias Type:
 EPA (FRS #)

 Alias Name:
 201532

Alias Type: Project Code (Site Code)

Alias Name: 07790001

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Land Use Restriction - Site Inspection/Visit

Completed Date: 06/29/2006 Comments: 06/29/2006

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Land Use Restriction - Site Inspection/Visit

Completed Date: 07/31/2007 Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/30/2005

Comments: Subject to compliance with the conditions in the Deed Restriction and

Operation and Maintenance Agreement, DTSC has determined that the Site should not pose a threat to human health or the environment and

certified the site under the Site Designation process.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: CEQA - Notice of Exemption

MAP FINDINGS

Map ID Direction Distance

Elevation Site Database(s) EPA ID Number

**SOCCER FIELDS (Continued)** 

S106152506

**EDR ID Number** 

Completed Date: 06/08/2005 Comments: Not reported

Completed Area Name: Recreational Tract
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/30/2005

Comments: A deed restriction was executed and recorded to preclude future

development for sensitive uses such as residential housing, hospitals, schools or day care centers and requiring operation and

maintenance of the parking lot.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Voluntary Cleanup Agreement

Completed Date: 12/30/2003

Comments: Voluntary Environmental Oversight Agreement Docket No. HSA-A

03/04-084 signed with Gaylord Container Corporation, d/b/a Inland

Paperboard and Packaging, Antioch Mill

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

AR 00044 Project

Completed Document Type: AB 2061 - Designation

Completed Date: 12/15/2003

Comments: Held site conference pursuant to H&SC Section 25398.2.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Site Conferences for SB 923 Sites

Completed Date: 01/29/2004 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Operation & Maintenance Order/Agreement

Completed Date: 06/28/2005

Comments: Operation and Maintenance Agreement signed with the Antioch Youth

Sports Council for maintenance of the parking lot area and to ensure

compliance with the deed restriction requirements.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 09/23/2011 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Annual Oversight Cost Estimate

Completed Date: 10/01/2010

Comments: Schedule and Estimate sent to RP representative, disucssed with the RP and adjusted as needed. Final copy mailed to RP October 1, 2010.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Land Use Restriction Monitoring Report

Completed Date: 06/29/2010

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

**SOCCER FIELDS (Continued)** 

S106152506

Comments: Inspection report found cracks on cap and a number of administrative

violations of the Land Use Covenant and the O&M Agreement.

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported

Completed Document Type: Land Use Restriction Monitoring Report

Completed Date: 06/29/2011

Comments: Completed the report on June 09, 2011.

Completed Area Name: Recreational Tract Not reported Completed Sub Area Name:

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 06/09/2005

Comments: The PEA evaluated the chemical levels detected in soil and identified

potential health risks only if these tracts were developed for

residential and other sensitive uses. Recreational use was evaluated and determined to be safe. Therefore, the PEA recommended placement of a deed restriction to ensure future development does not include sensitive uses such as residential housing, hospitals, schools or day care centers. The PEA further found that dioxin in the Sierra-Crete< used as base material beneath the parking lot could pose a potential risk to human health if the asphalt parking lot preventing extended direct contact with this material were removed. Therefore, the PEA recommended maintenance of the parking lot through a deed restriction and an operation and maintenance agreement. The PEA was put out for public comment, along with the draft deed restriction and Notice of Exemption from April 20, 2005 to May 20, 2005. No comments were

received and the PEA was approved.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: 5 Year Review Reports

Completed Date: 06/29/2010 Comments: Not reported

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Community Profile Completed Date: 10/25/2004

Comments: Public Participation Plan approved that addresses nine Gaylord Mill

and Non-Mill Sites in Antioch.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: **Fact Sheets** Completed Date: 04/18/2005

Comments: Based on the results of the PEA, a legal document called a Deed

> Restriction will be recorded for the Agricultural and Recreational Tracts. The Deed Restriction will place limits and requirements on future use of these properties. An Operation and Maintenance (O&M)

Plan was developed for maintaining the parking area on the

Recreational Tract.

Completed Area Name: Recreational Tract Completed Sub Area Name: Not reported Completed Document Type: Phase 1 Completed Date: 09/30/2002

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

**SOCCER FIELDS (Continued)** 

S106152506

Comments: Phase I Environmental Site Assessment submitted when Voluntary

Cleanup Agreement signed. Document reviewed as part of PEA Workplan

review.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: **Public Notice** Completed Date: 06/29/2010 Comments: Not reported

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Other Report Completed Date: 09/03/2010 Comments: Not reported

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported

Completed Document Type: Operations and Maintenance Report

Completed Date: 01/18/2011 Comments: Not reported

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported

Completed Document Type: Operations and Maintenance Report

Completed Date: 01/26/2012 Comments: Not reported

Completed Area Name: Agricultural Tract Completed Sub Area Name: Not reported Other Report Completed Document Type: Completed Date: 06/30/2003

Comments: Phase II ESA Report submitted once site entered into Voluntary

Cleanup Program. Report was reviewed as part of the review of the

PEA Workplan.

Completed Area Name: Agricultural Tract Completed Sub Area Name: Not reported

Completed Document Type: Preliminary Endangerment Assessment Report

Completed Date: 06/09/2005

Comments: Preliminary Endangerment Assessment (PEA) approved. The PEA evaluated the chemical levels detected in soil. Sampling did not detect a

hazardous substance release in soil on the northern Almond Orchard parcel that could pose a significant threat to public health or the environment. Therefore, the PEA recommended no further action for the northern Almond Orchard parcel. The PEA identified potential health risks for the Agricultural parcel only if these tracts were developed for residential or other sensitive uses. Recreational use was evaluated and determined to be safe. Therefore, the PEA recommended placement of a deed restriction on the Agricultural parcel to ensure that future development does not include sensitive uses such as residential housing, hospitals, schools or day care centers. The PEA was put out for public comment, along with the draft deed restriction and Notice of Exemption from April 20, 2005 to May 20, 2005. No comments were received and the PEA was approved.

Completed Area Name: Agricultural Tract

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

SOCCER FIELDS (Continued) S106152506

Completed Sub Area Name: Not reported Completed Document Type: Phase 1 Completed Date: 09/30/2002

Comments: 9/2002 Phase I Environmental Site Assessment document submitted once

the site entered into the Voluntary Cleanup Program. Document was

reviewed as part of the PEA Workplan.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Long Term Monitoring Report

Completed Date: 05/11/2010 Comments: Not reported

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: 5 Year Review Reports

Future Due Date: 2015

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2013

Future Area Name: PROJECT WIDE Future Sub Area Name: Not reported

Future Document Type: Operations and Maintenance Report

Future Due Date: 2014

Schedule Area Name:
Schedule Sub Area Name:
Schedule Document Type:
Schedule Due Date:
Schedule Revised Date:
Not reported
Not reported
Not reported
Not reported

56 OAKLEY ROAD METERING SITE ENVIROSTOR SE OAKLEY RD. & PHILLIPS LN.

1/2-1 0.727 mi. 3837 ft.

Relative: ENVIROSTOR:

HigherSite Type:EvaluationSite Type Detailed:EvaluationActual:Acres:0.7

ANTIOCH, CA 94509

Senate:

79 ft. NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED

Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley

07

Facility ID: 07490002
Site Code: Not reported
Assembly: 11

Special Program: Not reported
Status: Refer: RWQCB
Status Date: 08/28/2002

Restricted Use: NO

Site Mgmt. Req.: NONE SPECIFIED Funding: Not reported Latitude: 37.9975

S101479973

N/A

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **OAKLEY ROAD METERING SITE (Continued)**

S101479973

Longitude: -121.7597

APN: NONE SPECIFIED Past Use: NONE SPECIFIED Potential COC: 10009, 30018 Confirmed COC: NONE SPECIFIED Potential Description: NONE SPECIFIED

Alias Name: STANDARD PACIFIC GAS LINE INC.

Alias Type: Alternate Name Alias Name: 07490002

Alias Type: **Envirostor ID Number** 

Completed Info:

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Site Screening Completed Document Type: Completed Date: 01/31/1992

Comments: Completed Site Screening. Investigation conducted in August 1991

showed that soil and groundwater are contaminated with hydrocarbons,

BTEX and PCBs.

Not reported Future Area Name: Future Sub Area Name: Not reported Not reported Future Document Type: Future Due Date: Not reported Not reported Schedule Area Name: Not reported Schedule Sub Area Name: Schedule Document Type: Not reported Schedule Due Date: Not reported Schedule Revised Date: Not reported

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RIO VISTA	S105960203	RVGU 163 WELL SITE	HWY 12/ST 160	94571	ML SACRAMENTO
RIO VISTA	S106541833	LODI 2 COMPRESSOR STATION SITE	HWY 160/HORSESHOE BEND	94571	ML SACRAMENTO
ANTIOCH	S106666501	CHEVRON SS# 96946	BRIDGEHEAD RD & HWY 4	94509	SL CONTRA COSTA
RIO VISTA	S106923530	BRANNON ISLAND COMP. STATION	1-4 MILE OFF HWY 160	94571	SWEEPS UST
RIO VISTA	S106924246	CHEAPER #89	1009 HIGHWAY 12	94571	SWEEPS UST
RIO VISTA	S106929617	MORENO TRENCING, LTD.	210 HIGHWAY 12	94571	SWEEPS UST
RIO VISTA	S106930112	OILWELL MATERIALS CO.	506 HIGHWAY 12	94571	SWEEPS UST
ANTIOCH	S106932144	SHERMAN ISL. DEHYDRATOR-ODORAN	HIGHWAY 160	94509	SWEEPS UST
RIO VISTA	S106933378	UNION 76-TOM'S	510 HIGHWAY 12	94571	SWEEPS UST
RIO VISTA	S106967486	RVGU 169 WELL SITE	HWY 12/ST 160	94571	ML SACRAMENTO
RIO VISTA	S106967487	RVGU 162-1 (WELCH 6)WELL SITE	STATE ROUTE 160/HWY 12	94571	ML SACRAMENTO
ISLETON	S107447438	PG&E RECLAMATION BOARD #7 & #8	HWY 160/BRANNAN ISLAND RD STE	94571	ML SACRAMENTO
RIO VISTA	S108484708	WILCOX 12	HWY 12/HWY 160	94571	ML SACRAMENTO
RIO VISTA	S109149404	BIG BRANNAN COMPRESSOR STATION	HWY 12/HWY 160	94571	ML SACRAMENTO
RIO	S109612079	BAROFALDI FARMING	17924 HWY 160	94571	ML SACRAMENTO
RIO	S109612085	BEAN POT	18677 HWY 160	94571	ML SACRAMENTO
RIO	S109612153	CHEVRON - MIDLAND FEE #1	HWY 12/JACKSON	94571	ML SACRAMENTO
RIO	S109612343	JESSE MARKS & SON	HWY 160	94571	ML SACRAMENTO
RIO	S109612471	PG & E	HWY 160/TWITCHELL	94571	ML SACRAMENTO
RIO VISTA	S109612532	RVGU 236 WELL SITE	HWY 12/ST160	94571	ML SACRAMENTO
RIO	S109612568	SHERMAN WEST	18751 HWY 160	94571	ML SACRAMENTO
RIO VISTA	S110041543	P G & E - PUCCI MASTER METER ODORA	WALKER LANDING RD/HWY 160	94571	ML SACRAMENTO
SHERM	S110041619	PG & E SHERMAN ISL. DEHY	HWY 160	94571	ML SACRAMENTO
SHERM	S110041671	PG & E SHERMAN ISL DEHY #2	RIVER RD (HWY 160)	94571	ML SACRAMENTO
RIO VISTA	S110121904	PG & E LODI GAS SHERMAN ISLAND MET	HWY 160	94571	ML SACRAMENTO
ANTIOCH	S110455349	ANTIOCH CONVERTIBLES & AUTO UPHOLS	2665 PITTSBURG-ANTIOCH HWY #B		SL CONTRA COSTA
RIO VISTA	S110590903	P G & E - RECLAMATION BOARD #8 ODO	HWY 160/BRANNAN ISLAND RD	94571	ML SACRAMENTO
ANTIOCH	S110654018	LAURITZEN YACHT HARBOR	RTE 1	94509	LUST SAN MATEO
ANTIOCH	S110654019	LLOYD'S HOLIDAY HARBOR	RTE 1	94509	LUST SAN MATEO
RIO VISTA	S110656231	BABY BRANNAN COMPRESSOR STATION	SR 160/HWY 12	94571	ML SACRAMENTO
RIO VISTA	S110819274	PG & E SHERMAN ISL DEHYDRATOR STA	HIGHWAY 160	94571	ML SACRAMENTO
RIO VISTA	S111075601	DK AG	18833 HWY 160	94571	ML SACRAMENTO
ANTIOCH	S111711167	DELTA DIABLO SAN DIST/HHW	2550 PITTSBURG-ANTIOCH HWY		SL CONTRA COSTA
RURAL	U001596245	SHERMAN ISL. DEHYDRATOR-ODORAN	HIGHWAY 160	94509	HIST UST
RIO VISTA	U001598223	OUTRIGGER MARINA	STAR RTE. 93-A	94571	HIST UST
RIO VISTA	U001598227	RIO VISTA	840 HWY 12	94571	HIST UST
-		SERPA JUNCTION COMPRESSOR STAT	2 1/2 MI W/RIO VISTA ON HWY 12		HIST UST
RIO VISTA		SHERMAN-WEST COMPANY	STAR ROUTE BOX 224A		HIST UST
RIO VISTA		RIO VISTA MS	840 HWY. 12		HIST UST
RYER ISLAND		CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1		LUST SAN MATEO

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/08/2012 Source: EPA
Date Data Arrived at EDR: 05/10/2012 Telephone: N/A

Number of Days to Update: 5 Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

**NPL Site Boundaries** 

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/30/2012 Source: EPA
Date Data Arrived at EDR: 04/05/2012 Telephone: N/A

Number of Days to Update: 40 Next Scheduled EDR Contact: 07/23/2012
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267

Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

H - 290 TC3346200.2s Page GR-1

#### Federal Delisted NPL site list

**DELISTED NPL: National Priority List Deletions** 

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/30/2012 Date Data Arrived at EDR: 04/05/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 40

Source: EPA Telephone: N/A

Last EDR Contact: 04/05/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

#### Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011 Date Data Arrived at EDR: 02/27/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 14

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010 Date Data Arrived at EDR: 01/11/2011 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 36

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 04/12/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Varies

#### Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011 Date Data Arrived at EDR: 02/27/2012 Date Made Active in Reports: 03/12/2012

Number of Days to Update: 14

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

#### Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

H - 291 TC3346200.2s Page GR-2

Date of Government Version: 08/19/2011 Date Data Arrived at EDR: 08/31/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 132

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

#### Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

#### Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012 Number of Days to Update: 41

Source: Environmental Protection Agency Telephone: (415) 495-8895

Last EDR Contact: 04/04/2012 Next Scheduled EDR Contact: 07/16/2012

Data Release Frequency: Varies

H - 292 TC3346200.2s Page GR-3

#### Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/30/2011 Date Data Arrived at EDR: 12/30/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

#### Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/02/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 72

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Annually

## State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 05/07/2012 Date Data Arrived at EDR: 05/08/2012 Date Made Active in Reports: 05/23/2012

Number of Days to Update: 15

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Quarterly

#### State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

H - 293 TC3346200.2s Page GR-4

Date of Government Version: 05/07/2012 Date Data Arrived at EDR: 05/08/2012 Date Made Active in Reports: 05/23/2012

Number of Days to Update: 15

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Quarterly

#### State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/20/2012 Date Data Arrived at EDR: 02/20/2012 Date Made Active in Reports: 03/29/2012

Number of Days to Update: 38

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320 Last EDR Contact: 05/22/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Quarterly

#### State and tribal leaking storage tank lists

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 05/09/2012 Date Data Arrived at EDR: 05/10/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 15

Source: State Water Resources Control Board

Telephone: see region list Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Quarterly

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005 Date Data Arrived at EDR: 06/07/2005 Date Made Active in Reports: 06/29/2005

Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)

Telephone: 760-241-7365 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001 Date Data Arrived at EDR: 02/28/2001 Date Made Active in Reports: 03/29/2001

Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)

Telephone: 707-570-3769 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

H - 294 TC3346200.2s Page GR-5

#### LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005 Date Data Arrived at EDR: 02/15/2005 Date Made Active in Reports: 03/28/2005

Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-4496 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Varies

#### LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004 Date Data Arrived at EDR: 02/26/2004 Date Made Active in Reports: 03/24/2004

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)

Telephone: 760-776-8943 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

### LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 07/22/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: Quarterly

#### LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6710 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

#### LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003 Date Data Arrived at EDR: 09/10/2003 Date Made Active in Reports: 10/07/2003

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)

Telephone: 530-542-5572 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

## LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

H - 295 TC3346200.2s Page GR-6

Date of Government Version: 03/01/2001 Date Data Arrived at EDR: 04/23/2001 Date Made Active in Reports: 05/21/2001

Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-637-5595 Last EDR Contact: 09/26/2011

Next Scheduled EDR Contact: 01/09/2012 Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 05/09/2012 Date Data Arrived at EDR: 05/10/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 15

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 10/01/2012

Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003 Date Data Arrived at EDR: 04/07/2003 Date Made Active in Reports: 04/25/2003

Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)

Telephone: 707-576-2220 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-286-0457 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006 Date Data Arrived at EDR: 05/18/2006 Date Made Active in Reports: 06/15/2006

Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-549-3147 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004 Date Data Arrived at EDR: 11/18/2004 Date Made Active in Reports: 01/04/2005

Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6600 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

H - 296 TC3346200.2s Page GR-7

Date of Government Version: 04/01/2005 Date Data Arrived at EDR: 04/05/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-3291 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005 Date Data Arrived at EDR: 05/25/2005 Date Made Active in Reports: 06/16/2005

Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch

Telephone: 619-241-6583 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region

Telephone: 530-542-5574 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004 Date Data Arrived at EDR: 11/29/2004 Date Made Active in Reports: 01/04/2005

Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region

Telephone: 760-346-7491 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/03/2008 Date Made Active in Reports: 04/14/2008

Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)

Telephone: 951-782-3298 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007 Date Data Arrived at EDR: 09/11/2007 Date Made Active in Reports: 09/28/2007

Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-467-2980 Last EDR Contact: 08/08/2011

Next Scheduled EDR Contact: 11/21/2011 Data Release Frequency: Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

H - 297 TC3346200.2s Page GR-8

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011 Date Data Arrived at EDR: 09/13/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 59

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 103

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/14/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

H - 298 TC3346200.2s Page GR-9

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 05/09/2012 Date Data Arrived at EDR: 05/10/2012 Date Made Active in Reports: 05/24/2012

Number of Days to Update: 14

Source: SWRCB Telephone: 916-341-5851 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009 Date Data Arrived at EDR: 09/10/2009 Date Made Active in Reports: 10/01/2009

Number of Days to Update: 21

Source: State Water Resources Control Board

Telephone: 916-327-5092 Last EDR Contact: 01/23/2012

Next Scheduled EDR Contact: 04/23/2012 Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 26

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations)

Date of Government Version: 10/01/2011 Date Data Arrived at EDR: 11/01/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 10

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 103

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 88

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

H - 299 TC3346200.2s Page GR-10

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011 Date Data Arrived at EDR: 05/11/2011 Date Made Active in Reports: 06/14/2011

Number of Days to Update: 34

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/28/2012 Date Data Arrived at EDR: 02/29/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 76

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/28/2011 Date Data Arrived at EDR: 11/29/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 42

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 25

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

H - 300 TC3346200.2s Page GR-11

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 02/17/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 42

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 05/07/2012 Date Data Arrived at EDR: 05/08/2012 Date Made Active in Reports: 05/23/2012

Number of Days to Update: 15

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Quarterly

## ADDITIONAL ENVIRONMENTAL RECORDS

### Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/27/2011 Date Data Arrived at EDR: 06/27/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 78

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Semi-Annually

### Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

H - 301 TC3346200.2s Page GR-12

### WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000 Date Data Arrived at EDR: 04/10/2000 Date Made Active in Reports: 05/10/2000

Number of Days to Update: 30

Source: State Water Resources Control Board

Telephone: 916-227-4448 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/12/2012 Date Data Arrived at EDR: 03/21/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 48

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.

Date of Government Version: 05/10/2012 Date Data Arrived at EDR: 05/10/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 15

Source: Integrated Waste Management Board

Telephone: 916-341-6422 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 05/07/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Varies

### Local Lists of Hazardous waste / Contaminated Sites

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/02/2012 Date Data Arrived at EDR: 03/13/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 93

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Quarterly

#### HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

H - 302 TC3346200.2s Page GR-13

Date of Government Version: 08/08/2005 Date Data Arrived at EDR: 08/03/2006 Date Made Active in Reports: 08/24/2006

Number of Days to Update: 21

Source: Department of Toxic Substance Control

Telephone: 916-323-3400 Last EDR Contact: 02/23/2009

Next Scheduled EDR Contact: 05/25/2009 Data Release Frequency: No Update Planned

### SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 05/07/2012 Date Data Arrived at EDR: 05/08/2012 Date Made Active in Reports: 05/23/2012

Number of Days to Update: 15

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Quarterly

## TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995 Date Data Arrived at EDR: 08/30/1995 Date Made Active in Reports: 09/26/1995

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 916-227-4364 Last EDR Contact: 01/26/2009

Next Scheduled EDR Contact: 04/27/2009 Data Release Frequency: No Update Planned

## CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2011 Date Data Arrived at EDR: 02/14/2012 Date Made Active in Reports: 02/21/2012

Number of Days to Update: 7

Source: Department of Toxic Substances Control

Telephone: 916-255-6504 Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

#### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009

Data Release Frequency: No Update Planned

## Local Lists of Registered Storage Tanks

### CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994 Date Data Arrived at EDR: 09/05/1995 Date Made Active in Reports: 09/29/1995

Number of Days to Update: 24

Source: California Environmental Protection Agency

Telephone: 916-341-5851 Last EDR Contact: 12/28/1998 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

H - 303 TC3346200.2s Page GR-14

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009 Date Data Arrived at EDR: 09/23/2009 Date Made Active in Reports: 10/01/2009

Number of Days to Update: 8

Source: Department of Public Health

Telephone: 707-463-4466 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990 Date Data Arrived at EDR: 01/25/1991 Date Made Active in Reports: 02/12/1991

Number of Days to Update: 18

Source: State Water Resources Control Board

Telephone: 916-341-5851 Last EDR Contact: 07/26/2001 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained.

The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994 Date Data Arrived at EDR: 07/07/2005 Date Made Active in Reports: 08/11/2005

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: N/A

Last EDR Contact: 06/03/2005 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

### Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012 Date Data Arrived at EDR: 03/26/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 80

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/12/2012 Date Data Arrived at EDR: 03/13/2012 Date Made Active in Reports: 04/02/2012

Number of Days to Update: 20

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

H - 304 TC3346200.2s Page GR-15

### DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/12/2012 Date Data Arrived at EDR: 03/13/2012 Date Made Active in Reports: 04/02/2012

Number of Days to Update: 20

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 06/12/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Semi-Annually

## Records of Emergency Release Reports

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/01/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 72

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Annually

### CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 03/28/2012 Date Data Arrived at EDR: 05/01/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 24

Source: Office of Emergency Services

Telephone: 916-845-8400 Last EDR Contact: 05/01/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

### LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 05/09/2012 Date Data Arrived at EDR: 05/10/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 15

Source: State Water Quality Control Board

Telephone: 866-480-1028 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Quarterly

### MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 05/09/2012 Date Data Arrived at EDR: 05/10/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 15

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Quarterly

### Other Ascertainable Records

H - 305 TC3346200.2s Page GR-16

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/15/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/15/2012

Number of Days to Update: 41

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 04/04/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011 Date Data Arrived at EDR: 08/09/2011 Date Made Active in Reports: 11/11/2011

Number of Days to Update: 94

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 05/08/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS Telephone: 888-275-8747

Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 08/12/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 112

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 01/25/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 36

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012 Date Data Arrived at EDR: 03/14/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 92

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 06/13/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Annually

H - 306 TC3346200.2s Page GR-17

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010 Date Data Arrived at EDR: 10/07/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011 Date Data Arrived at EDR: 09/08/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 06/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 09/01/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 131

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 05/29/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 64

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/28/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

H - 307 TC3346200.2s Page GR-18

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

#### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011 Date Data Arrived at EDR: 11/10/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 61

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010 Date Data Arrived at EDR: 11/10/2010 Date Made Active in Reports: 02/16/2011

Number of Days to Update: 98

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/17/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Annually

H - 308 TC3346200.2s Page GR-19

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011 Date Data Arrived at EDR: 07/15/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 60

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Quarterly

#### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/10/2012 Date Data Arrived at EDR: 01/12/2012 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 49

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

#### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011 Date Data Arrived at EDR: 12/13/2011 Date Made Active in Reports: 03/01/2012

Number of Days to Update: 79

Source: EPA

Telephone: (415) 947-8000 Last EDR Contact: 06/12/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 03/01/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 62

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Biennially

H - 309 TC3346200.2s Page GR-20

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of

Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989 Date Data Arrived at EDR: 07/27/1994 Date Made Active in Reports: 08/02/1994

Number of Days to Update: 6

Source: Department of Health Services

Telephone: 916-255-2118 Last EDR Contact: 05/31/1994 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/20/2012 Date Data Arrived at EDR: 02/20/2012 Date Made Active in Reports: 03/29/2012

Number of Days to Update: 38

Source: State Water Resources Control Board

Telephone: 916-445-9379 Last EDR Contact: 05/22/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Quarterly

UIC: UIC Listing

A listing of underground control injection wells.

Date of Government Version: 12/09/2011 Date Data Arrived at EDR: 02/29/2012 Date Made Active in Reports: 04/04/2012

Number of Days to Update: 35

Source: Deaprtment of Conservation

Telephone: 916-445-2408 Last EDR Contact: 06/13/2012

Next Scheduled EDR Contact: 10/01/2012

Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007 Date Data Arrived at EDR: 06/20/2007 Date Made Active in Reports: 06/29/2007

Number of Days to Update: 9

Source: State Water Resources Control Board

Telephone: 916-341-5227 Last EDR Contact: 05/23/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 04/02/2012 Date Data Arrived at EDR: 04/03/2012 Date Made Active in Reports: 06/11/2012

Number of Days to Update: 69

Source: CAL EPA/Office of Emergency Information

Telephone: 916-323-3400 Last EDR Contact: 04/03/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001 Date Data Arrived at EDR: 01/22/2009 Date Made Active in Reports: 04/08/2009 Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 01/22/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

H - 310 TC3346200.2s Page GR-21

Date of Government Version: 10/21/1993 Date Data Arrived at EDR: 11/01/1993 Date Made Active in Reports: 11/19/1993

Number of Days to Update: 18

Source: State Water Resources Control Board

Telephone: 916-445-3846 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: No Update Planned

### DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 01/19/2012 Date Data Arrived at EDR: 01/19/2012 Date Made Active in Reports: 02/21/2012

Number of Days to Update: 33

Source: Department of Toxic Substance Control

Telephone: 916-327-4498 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Annually

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009 Date Data Arrived at EDR: 07/21/2009 Date Made Active in Reports: 08/03/2009

Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726 Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012

Data Release Frequency: Varies

#### **ENF:** Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/15/2011 Date Data Arrived at EDR: 08/23/2011 Date Made Active in Reports: 10/03/2011

Number of Days to Update: 41

Source: State Water Resoruces Control Board

Telephone: 916-445-9379 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

### HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 07/19/2011 Date Made Active in Reports: 08/16/2011

Number of Days to Update: 28

Source: California Environmental Protection Agency

Telephone: 916-255-1136 Last EDR Contact: 04/17/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Annually

### EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2008 Date Data Arrived at EDR: 09/29/2010 Date Made Active in Reports: 10/18/2010

Number of Days to Update: 19

Source: California Air Resources Board

Telephone: 916-322-2990 Last EDR Contact: 03/30/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

H - 311 TC3346200.2s Page GR-22

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/06/2012

Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012

Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Date Data Arrived at EDR: 10/19/2011 Date Made Active in Reports: 01/10/2012

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 05/04/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010 Date Data Arrived at EDR: 01/03/2011 Date Made Active in Reports: 03/21/2011

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 06/12/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 03/31/2012 Date Data Arrived at EDR: 05/17/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 28

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

H - 312 TC3346200.2s Page GR-23

2020 CORRECTIVE ACTION: 2020 Corrective Action Program List

This RCRA cleanup baseline includes facilities expected to need corrective action.

Date of Government Version: 11/11/2011 Date Data Arrived at EDR: 05/18/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 05/18/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2012 Date Data Arrived at EDR: 04/12/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 26

Source: Department of Toxic Substances Control

Telephone: 916-440-7145 Last EDR Contact: 04/12/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Quarterly

PROC: Certified Processors Database A listing of certified processors.

> Date of Government Version: 03/12/2012 Date Data Arrived at EDR: 03/21/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 48

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/24/2012 Date Data Arrived at EDR: 03/13/2012 Date Made Active in Reports: 04/02/2012

Number of Days to Update: 20

Source: Department of Public Health Telephone: 916-558-1784 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 03/01/2007 Date Data Arrived at EDR: 06/01/2007 Date Made Active in Reports: 06/29/2007

Number of Days to Update: 28

Source: Department of Toxic Substances Control

Telephone: 916-255-3628 Last EDR Contact: 05/04/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

H - 313 TC3346200.2s Page GR-24

Date of Government Version: 02/22/2012 Date Data Arrived at EDR: 02/24/2012 Date Made Active in Reports: 04/04/2012

Number of Days to Update: 40

Source: California Integrated Waste Management Board

Telephone: 916-341-6066 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Varies

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/09/2010 Date Data Arrived at EDR: 08/11/2010 Date Made Active in Reports: 08/20/2010

Number of Days to Update: 9

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: 09/10/2012 Data Release Frequency: Quarterly

### **EDR PROPRIETARY RECORDS**

### **EDR Proprietary Records**

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR. Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

### **COUNTY RECORDS**

## ALAMEDA COUNTY:

## Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/03/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 34

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Semi-Annually

## **Underground Tanks**

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/03/2012 Date Data Arrived at EDR: 04/04/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 34

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Semi-Annually

### CONTRA COSTA COUNTY:

H - 314 TC3346200.2s Page GR-25

#### Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 03/26/2012 Date Data Arrived at EDR: 03/28/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 41

Source: Contra Costa Health Services Department

Telephone: 925-646-2286 Last EDR Contact: 05/07/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Semi-Annually

#### KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010 Date Data Arrived at EDR: 09/01/2010 Date Made Active in Reports: 09/30/2010

Number of Days to Update: 29

Source: Kern County Environment Health Services Department

Telephone: 661-862-8700 Last EDR Contact: 06/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

#### LOS ANGELES COUNTY:

### San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009 Date Data Arrived at EDR: 03/31/2009 Date Made Active in Reports: 10/23/2009

Number of Days to Update: 206

Source: EPA Region 9 Telephone: 415-972-3178 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: No Update Planned

#### **HMS: Street Number List**

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/29/2011 Date Data Arrived at EDR: 12/15/2011 Date Made Active in Reports: 01/19/2012

Number of Days to Update: 35

Source: Department of Public Works Telephone: 626-458-3517

Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

## List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/23/2012 Date Data Arrived at EDR: 04/24/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 31

Source: La County Department of Public Works

Telephone: 818-458-5185 Last EDR Contact: 04/24/2012

Next Scheduled EDR Contact: 08/06/2012 Data Release Frequency: Varies

#### City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009 Date Data Arrived at EDR: 03/10/2009 Date Made Active in Reports: 04/08/2009

Number of Days to Update: 29

Source: Engineering & Construction Division

Telephone: 213-473-7869 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012

Data Release Frequency: Varies

H - 315 TC3346200.2s Page GR-26

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 12/29/2011 Date Data Arrived at EDR: 02/02/2012 Date Made Active in Reports: 02/21/2012

Number of Days to Update: 19

Source: Community Health Services Telephone: 323-890-7806

Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 08/06/2012 Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 04/26/2012 Date Data Arrived at EDR: 05/01/2012 Date Made Active in Reports: 05/24/2012

Number of Days to Update: 23

Source: City of El Segundo Fire Department

Telephone: 310-524-2236 Last EDR Contact: 04/17/2012

Next Scheduled EDR Contact: 08/06/2012 Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003 Date Data Arrived at EDR: 10/23/2003 Date Made Active in Reports: 11/26/2003

Number of Days to Update: 34

Source: City of Long Beach Fire Department

Telephone: 562-570-2563 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 03/16/2012 Date Data Arrived at EDR: 04/16/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 22

Source: City of Torrance Fire Department

Telephone: 310-618-2973 Last EDR Contact: 04/10/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 01/13/2012 Date Data Arrived at EDR: 01/24/2012 Date Made Active in Reports: 02/22/2012

Number of Days to Update: 29

Source: Public Works Department Waste Management

Telephone: 415-499-6647 Last EDR Contact: 05/08/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011 Date Data Arrived at EDR: 12/06/2011 Date Made Active in Reports: 02/07/2012

Number of Days to Update: 63

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: No Update Planned

H - 316 TC3346200.2s Page GR-27

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008 Date Data Arrived at EDR: 01/16/2008 Date Made Active in Reports: 02/08/2008

Number of Days to Update: 23

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 12/05/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: No Update Planned

#### **ORANGE COUNTY:**

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2012 Date Data Arrived at EDR: 05/17/2012 Date Made Active in Reports: 06/11/2012

Number of Days to Update: 25

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/01/2012 Date Data Arrived at EDR: 02/17/2012 Date Made Active in Reports: 02/21/2012

Number of Days to Update: 4

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2012 Date Data Arrived at EDR: 05/17/2012 Date Made Active in Reports: 05/24/2012

Number of Days to Update: 7

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

### PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/19/2012 Date Data Arrived at EDR: 03/19/2012 Date Made Active in Reports: 04/04/2012

Number of Days to Update: 16

Source: Placer County Health and Human Services

Telephone: 530-889-7312 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/23/2012 Date Data Arrived at EDR: 04/24/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 31

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 12/21/2011

Next Scheduled EDR Contact: 04/09/2012 Data Release Frequency: Quarterly

H - 317 TC3346200.2s Page GR-28

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 04/23/2012 Date Data Arrived at EDR: 04/24/2012 Date Made Active in Reports: 05/24/2012

Number of Days to Update: 30

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 12/21/2011

Next Scheduled EDR Contact: 04/26/2012 Data Release Frequency: Quarterly

#### SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/07/2012 Date Data Arrived at EDR: 04/16/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 22

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 04/09/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/02/2012 Date Data Arrived at EDR: 04/17/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 21

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 04/09/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Quarterly

### SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/01/2012 Date Data Arrived at EDR: 03/01/2012 Date Made Active in Reports: 03/27/2012

Number of Days to Update: 26

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

#### SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/09/2010 Date Data Arrived at EDR: 09/15/2010 Date Made Active in Reports: 09/29/2010

Number of Days to Update: 14

Source: Hazardous Materials Management Division

Telephone: 619-338-2268 Last EDR Contact: 06/15/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Quarterly

> H - 318 TC3346200.2s Page GR-29

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2011 Date Data Arrived at EDR: 11/04/2011 Date Made Active in Reports: 12/13/2011

Number of Days to Update: 39

Source: Department of Health Services

Telephone: 619-338-2209 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Varies

**Environmental Case Listing** 

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010 Date Data Arrived at EDR: 06/15/2010 Date Made Active in Reports: 07/09/2010

Number of Days to Update: 24

Source: San Diego County Department of Environmental Health Telephone: 619-338-2371

Telephone: 619-338-2371 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008 Date Data Arrived at EDR: 09/19/2008 Date Made Active in Reports: 09/29/2008

Number of Days to Update: 10

Source: Department Of Public Health San Francisco County

Telephone: 415-252-3920 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010 Date Data Arrived at EDR: 03/10/2011 Date Made Active in Reports: 03/15/2011

Number of Days to Update: 5

Source: Department of Public Health Telephone: 415-252-3920

Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/29/2012 Date Data Arrived at EDR: 03/30/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 39

Source: Environmental Health Department

Telephone: N/A

Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

**Business Inventory** 

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/09/2012 Date Data Arrived at EDR: 04/09/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 29

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 06/17/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Annually

H - 319 TC3346200.2s Page GR-30

#### Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/26/2012 Date Data Arrived at EDR: 03/26/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 43

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 06/18/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Semi-Annually

#### SANTA CLARA COUNTY:

### HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005 Date Data Arrived at EDR: 03/30/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 22

Source: Santa Clara Valley Water District

Telephone: 408-265-2600 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

#### LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/05/2012 Date Data Arrived at EDR: 03/07/2012 Date Made Active in Reports: 03/27/2012

Number of Days to Update: 20

Source: Department of Environmental Health

Telephone: 408-918-3417 Last EDR Contact: 06/04/2012

Next Scheduled EDR Contact: 09/17/2012 Data Release Frequency: Annually

### Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/15/2012 Date Data Arrived at EDR: 05/15/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 10

Source: City of San Jose Fire Department

Telephone: 408-535-7694 Last EDR Contact: 05/15/2012

Next Scheduled EDR Contact: 08/27/2012 Data Release Frequency: Annually

## SOLANO COUNTY:

## Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/19/2012 Date Data Arrived at EDR: 03/21/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 48

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 06/15/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Quarterly

### **Underground Storage Tanks**

Underground storage tank sites located in Solano county.

Date of Government Version: 03/19/2012 Date Data Arrived at EDR: 03/22/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 47

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 06/15/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Quarterly

## SONOMA COUNTY:

H - 320 TC3346200.2s Page GR-31

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/05/2011 Date Data Arrived at EDR: 04/06/2011 Date Made Active in Reports: 05/12/2011

Number of Days to Update: 36

Source: Department of Health Services

Telephone: 707-565-6565 Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012 Data Release Frequency: Quarterly

#### SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 03/12/2012 Date Data Arrived at EDR: 03/13/2012 Date Made Active in Reports: 04/03/2012

Number of Days to Update: 21

Made Active in Reports: 04/03/2

Source: Sutter County Department of Agriculture

Telephone: 530-822-7500 Last EDR Contact: 06/11/2012

Next Scheduled EDR Contact: 09/24/2012 Data Release Frequency: Semi-Annually

#### **VENTURA COUNTY:**

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 02/03/2012 Date Data Arrived at EDR: 02/22/2012 Date Made Active in Reports: 03/29/2012

Number of Days to Update: 36

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012

Number of Days to Update: 49

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 04/09/2012

Next Scheduled EDR Contact: 07/23/2012 Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 37

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 05/21/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/30/2012 Date Data Arrived at EDR: 05/04/2012 Date Made Active in Reports: 05/25/2012

Number of Days to Update: 21

Source: Ventura County Resource Management Agency

Telephone: 805-654-2813 Last EDR Contact: 04/30/2012

Next Scheduled EDR Contact: 08/13/2012 Data Release Frequency: Quarterly

H - 321 TC3346200.2s Page GR-32

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2012 Date Data Arrived at EDR: 03/21/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 48

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 06/14/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Quarterly

#### YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2012 Date Data Arrived at EDR: 03/30/2012 Date Made Active in Reports: 05/08/2012

Number of Days to Update: 39

Source: Yolo County Department of Health

Telephone: 530-666-8646 Last EDR Contact: 03/26/2012

Next Scheduled EDR Contact: 07/09/2012 Data Release Frequency: Annually

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/21/2012 Date Data Arrived at EDR: 05/22/2012 Date Made Active in Reports: 05/31/2012

Number of Days to Update: 9

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 05/22/2012

Next Scheduled EDR Contact: 09/03/2012 Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 07/20/2011
Date Made Active in Reports: 08/11/2011

Number of Days to Update: 22

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 04/17/2012

Next Scheduled EDR Contact: 07/30/2012 Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2012 Date Data Arrived at EDR: 05/09/2012 Date Made Active in Reports: 06/14/2012

Number of Days to Update: 36

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/09/2012

Next Scheduled EDR Contact: 08/20/2012 Data Release Frequency: Annually

H - 322 TC3346200.2s Page GR-33

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 04/27/2012 Date Made Active in Reports: 06/05/2012

Number of Days to Update: 39

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 04/23/2012

Next Scheduled EDR Contact: 08/06/2012 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 06/24/2011 Date Made Active in Reports: 06/30/2011

Number of Days to Update: 6

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 02/27/2012

Next Scheduled EDR Contact: 06/11/2012 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010 Date Data Arrived at EDR: 08/19/2011 Date Made Active in Reports: 09/15/2011

Number of Days to Update: 27

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/18/2012

Next Scheduled EDR Contact: 10/01/2012 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data Source: Rextag Strategies Corp. Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

**Nursing Homes** 

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are

comparable across all states. Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

H - 323 TC3346200.2s Page GR-34

Daycare Centers: Licensed Facilities Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## STREET AND ADDRESS INFORMATION

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

H - 324 TC3346200.2s Page GR-35

# **GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

ANTIOCH ANNEX AREA 2B 2200 EAST 18TH STREET ANTIOCH, CA 94509

### **TARGET PROPERTY COORDINATES**

Latitude (North): 38.006 - 38° 0' 21.60" Longitude (West): 121.7743 - 121° 46' 27.48"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 607609.1 UTM Y (Meters): 4206984.0

Elevation: 46 ft. above sea level

## **USGS TOPOGRAPHIC MAP**

Target Property Map: 38121-A7 ANTIOCH NORTH, CA

Most Recent Revision: 1978

South Map: 37121-H7 ANTIOCH SOUTH, CA

Most Recent Revision: 1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

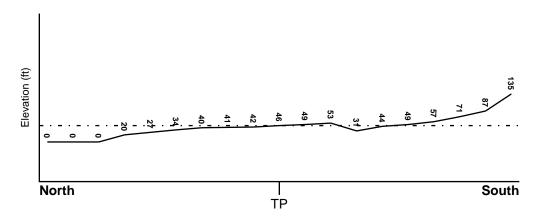
## **TOPOGRAPHIC INFORMATION**

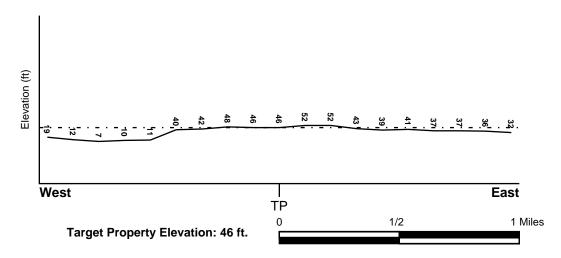
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

### **SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**





Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE** 

FEMA Flood Electronic Data

Target Property County CONTRA COSTA, CA

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:

06013C - FEMA DFIRM Flood data

Additional Panels in search area:

0602620670C - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

**ANTIOCH NORTH** 

YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## Site-Specific Hydrogeological Data\*:

Search Radius: 1.25 miles Status: Not found

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

## **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### **ROCK STRATIGRAPHIC UNIT**

## **GEOLOGIC AGE IDENTIFICATION**

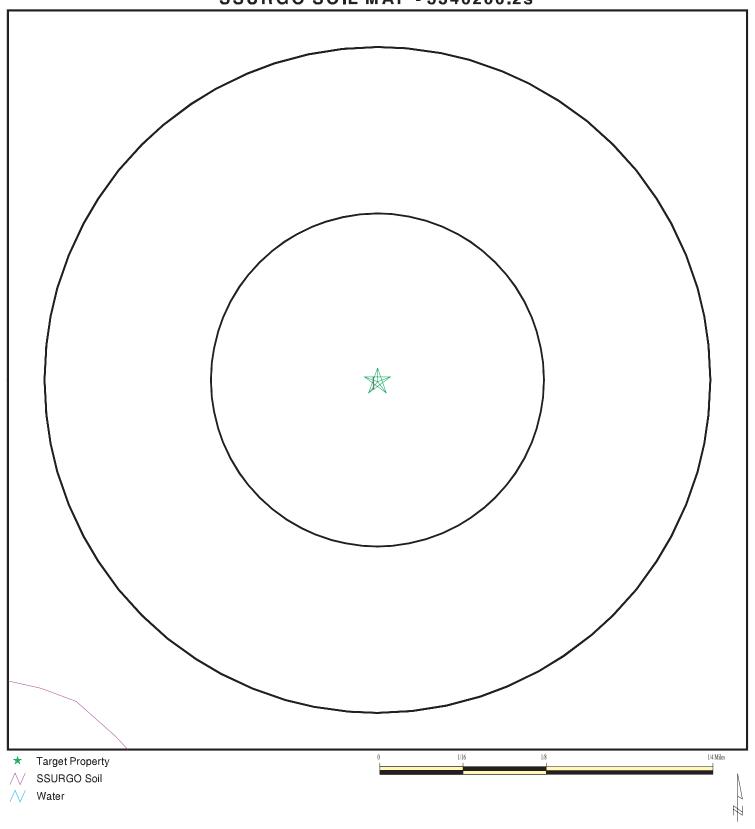
Era: Cenozoic Category: Stratifed Sequence

System: Quaternary Series: Quaternary

Code: Q (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 3346200.2s



SITE NAME: Antioch Annex Area 2B ADDRESS: 2200 East 18th Street

Antioch CA 94509 38.006 / 121.7743 LAT/LONG:

CLIENT: Baseline Environmental Cons. CONTACT: Cheri Page 3½ QUIRY #: 3346200.2s DATE: June 18, 2012 1:06 pm

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: DELHI

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic	1
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	5 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.6
2	5 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.6

## **LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

## FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS3227860	1/4 - 1/2 Mile SE
3	USGS3227872	1/4 - 1/2 Mile West
4	USGS3227868	1/4 - 1/2 Mile ESE
5	USGS3227913	1/4 - 1/2 Mile NNE
A7	USGS3227921	1/2 - 1 Mile NNE
A8	USGS3227920	1/2 - 1 Mile NNE
9	USGS3227864	1/2 - 1 Mile East
B11	USGS3227884	1/2 - 1 Mile West
B12	USGS3227879	1/2 - 1 Mile West
13	USGS3227922	1/2 - 1 Mile NW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP

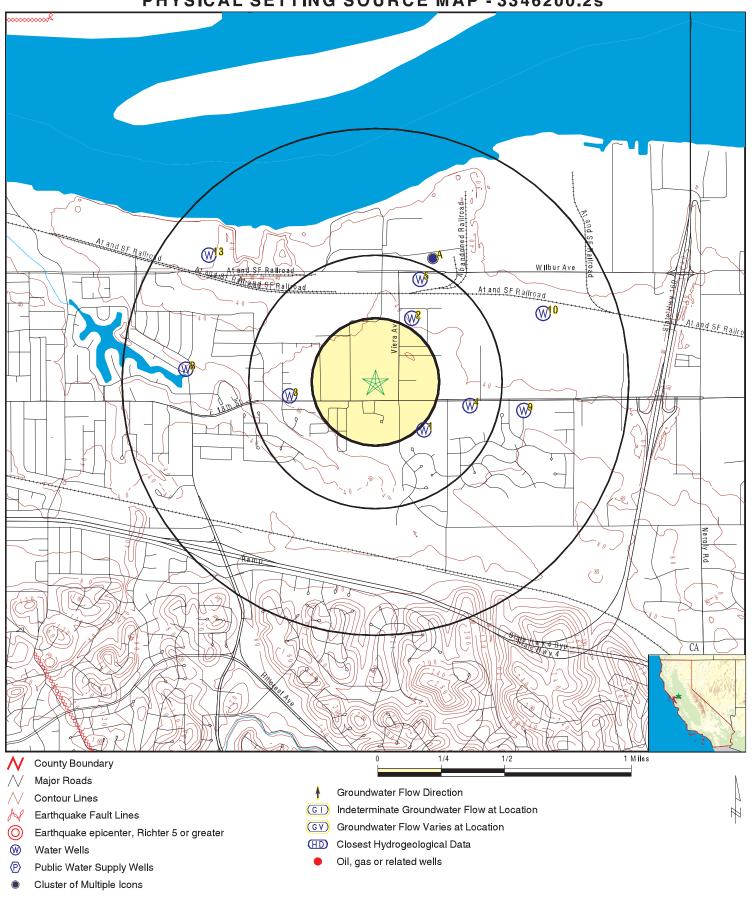
No PWS System Found

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	1680	1/4 - 1/2 Mile NNE
A6	1679	1/2 - 1 Mile NNE
10	1682	1/2 - 1 Mile ENE

# PHYSICAL SETTING SOURCE MAP - 3346200.2s



SITE NAME: Antioch Annex Area 2B ADDRESS: 2200 East 18th Street

Antioch CA 94509 LAT/LONG: 38.006 / 121.7743 CLIENT: Baseline Environmental Cons. CONTACT: Cheri Page

TCONTACT: Chert Page 1-8½ QUIRY #: 3346200.2s

DATE: June 18, 2012 1:06 pm

Map ID Direction Distance

Elevation Database EDR ID Number

**FED USGS** USGS3227860

1/4 - 1/2 Mile Higher

> Agency cd: **USGS** Site no: 380012121461101

002N002E20J001M Site name:

USGS3227860 Latitude: 380012 EDR Site id: Longitude: 1214611 Dec lat: 38.00325487 Dec Ion: -121.770788 Coor meth: Μ Coor accr: S Latlong datum: NAD27

Dec latlong datum: NAD83 District: 06 013 State: 06 County:

NESE S20 T02N R02E M Country: US Land net:

ANTIOCH NORTH Location map: Map scale: 24000

45.00 Altitude:

Altitude method: Interpolated from topographic map

Altitude accuracy:

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ChowchillaUpper Fresno. California. Area = 938 sq.mi.

Topographic: Flat surface

18700101 Site type: Ground-water other than Spring Date construction: Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag:

Single well, other than collector or Ranney type Type of ground water site:

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 95.0 Hole depth: 95.0

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: Daily flow data begin date: 0000-00-00 0

Daily flow data end date: 0000-00-00 Daily flow data count:

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Peak flow data count: Water quality data begin date: 1972-06-22 Water quality data end date:1982-09-23 Water quality data count: 29

Ground water data begin date: 0000-00-00 Ground water data end date: 0000-00-00

Ground water data count: 0

Ground-water levels, Number of Measurements: 0

**CA WELLS** 1680

NNE 1/4 - 1/2 Mile

Lower

Water System Information:

Prime Station Code: 02N/02E-20A02 M User ID: 07C

FRDS Number: 0707506001 County: Contra Costa

District Number: 37 Station Type: WELL/AMBNT/MUN/INTAKE

Water Type: Well/Groundwater Well Status: Active Raw

Source Lat/Long: 380035.0 1214614.0 Precision: 1,000 Feet (10 Seconds)

Source Name: WELL 01

System Number: 0707506

System Name: SANTA FE APARTMENTS

Organization That Operates System:

Not Reported

Pop Served: Unknown, Small System Connections:

Area Served: Not Reported

3
West FED USGS USGS3227872

Unknown, Small System

1/4 - 1/2 Mile Higher

Agency cd: USGS Site no: 380019121464601

Site name: 002N002E20F001M

 Latitude:
 380019
 EDR Site id:
 USGS3227872

 Longitude:
 1214646
 Dec lat:
 38.00519924

 Dec lon:
 -121.78051054
 Coor meth:
 M

Country: US Land net: SENW S20 T02N R02E M

Location map: ANTIOCH NORTH Map scale: 24000

Altitude: 46.00

Altitude method: Interpolated from topographic map

Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: San Joaquin Delta. California. Area = 938 sq.mi.

Topographic: Flat surface

Site type: Ground-water other than Spring Date construction: 19480101

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 93.0 Hole depth: 93.0

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data count: 0 Peak flow data end date: 0000-00-00 Water quality data begin date: 1970-12-23

Water quality data end date:1982-09-23 Water quality data count: 45

Ground water data begin date: 1972-08-22 Ground water data end date: 1982-09-23

Ground water data count: 27

Ground-water levels, Number of Measurements: 27

	Feet below	Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealevel
1982-09-23	52.00		1982-04-29	51.66	
1981-09-17	52.88		1981-04-21	52.83	
1980-09-24	53.07		1980-04-10	51.4	
1979-09-24	54.40		1979-04-17	54.60	
1978-09-25	53.84				
Note: The	site had been	pumped recently.			
1978-04-17	52.09		1977-09-13	56.02	
1977-04-26	54.09		1976-09-15	56.01	
1976-04-12	54.79		1975-09-16	54.54	
1975-04-07	53.18		1974-09-24	53.54	

Ground-wate	er levels, conti	nued.			
	Feet below	Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealevel
1974-03-11	51.69		1973-10-04	53.34	
1973-05-23	51.98		1973-03-21	51.18	
1973-02-20	51.84		1973-01-24	52.63	
1972-12-19	53.17		1972-11-15	53.93	

4 ESE FED USGS USGS3227868 1/4 - 1/2 Mile Higher

1972-08-22 54.35

Agency cd: USGS

1972-09-19 54.50

Agency cd: USGS Site no: 380017121455901 Site name: 002N002E21K001M

 Latitude:
 380017
 EDR Site id:
 USGS3227868

 Longitude:
 1214559
 Dec lat:
 38.00464372

Dec Ion: -121.76745459 Coor meth: Μ Coor accr: S Latlong datum: NAD27 Dec latlong datum: NAD83 District: 06 State: 06 County: 013

Country: US Land net: NWNWSES21 T02N R02E M

Location map: ANTIOCH NORTH Map scale: 24000

Altitude: 44.00

Altitude method: Interpolated from topographic map

Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929 Hydrologic: San Joaquin Delta. California. Area = 938 sq.mi.

Topographic: Flat surface

Site type: Ground-water other than Spring Date construction: 19520501

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 120 Hole depth: 120

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 1972-06-22

Water quality data end date:1982-09-24 Water quality data count: 26
Ground water data begin date: 0000-00-00
Ground water data end date: 0000-00-00

Ground water data count: 0

Lower

Ground-water levels, Number of Measurements: 0

5 NNE FED USGS USGS3227913 1/4 - 1/2 Mile

TC3346200.2s Page A-11

Agency cd: USGS Site no: 380043121461201

Site name: 002N002E20A001M

 Latitude:
 380043
 EDR Site id:
 USGS3227913

 Longitude:
 1214612
 Dec lat:
 38.0118657

 Dec lon:
 -121.77106589
 Coor meth:
 M

 Coor accr:
 S
 Latlong datum:
 NAD27

Coor accr:SLatlong datum:NAD2Dec latlong datum:NAD83District:06State:06County:013

Country: US Land net: NENE S20 T02N R02E G

Location map: ANTIOCH NORTH Map scale: 24000

Altitude: 30.00

Altitude method: Interpolated from topographic map
Altitude accuracy: 10
Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ChowchillaUpper Fresno. California. Area = 938 sq.mi.

Topographic: Flat surface

Site type: Ground-water other than Spring Date construction: 19480101

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag:

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 78.0 Hole depth: 78.0

Source of depth data: Not Reported Project number: 479435800

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00
Peak flow data count: 0 Peak flow data end date: 0000-00-00
Water quality data begin date: 1957-02-04
Water quality data end date:1982-09-24
Water quality data count: 44

Ground water data begin date: 1948-01-01

Ground water data end date: 1948-01-01

Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Feet below Feet to
Date Surface Sealevel

1948-01-01 31.00

A6 NNE CA WELLS 1679 1/2 - 1 Mile

1/2 - 1 Milio Lower

Water System Information:

Prime Station Code: 02N/02E-20A01 M User ID: 07C

FRDS Number: 0707522001 County: Contra Costa
District Number: 37 Station Type: WELL/AMBNT/MUN/INTAKE

Water Type: Well/Groundwater Well Status: Active Raw

Water Type: Well/Groundwater Well/Status: Active Raw
Source Lat/Long: 380046.0 1214608.0 Precision: 1,000 Feet (10 Seconds)

Source Name: WELL 03 System Number: 0707522

System Name: LOUISIANA PACIFIC

Organization That Operates System:

Not Reported

Pop Served: Unknown, Small System Connections: Unknown, Small System

Area Served: Not Reported

Map ID Direction Distance

Elevation Database EDR ID Number

A7 NNE 1/2 - 1 Mile

**FED USGS** USGS3227921

Lower

Agency cd: **USGS** Site no: 380048121460902

002N002E17R003M Site name:

USGS3227921 Latitude: 380048 EDR Site id: 1214609 Longitude: Dec lat: 38.01325455 Dec Ion: -121.77023255 Coor meth: Coor accr: S Latlong datum: NAD27 Dec latlong datum: NAD83 District: 06 013 State: 06 County:

SESE S17 T02N R02E M Country: US Land net:

ANTIOCH NORTH Location map: Map scale: 24000

30.00 Altitude:

Altitude method: Interpolated from topographic map

Altitude accuracy:

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ChowchillaUpper Fresno. California. Area = 938 sq.mi.

Topographic: Flat surface

Site type: Ground-water other than Spring Date construction: 19720301 Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag:

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported Aquifer: Not Reported

Well depth: 102 102 Hole depth:

Source of depth data: Not Reported Not Reported Project number:

Real time data flag: Daily flow data begin date: 0000-00-00 0

Daily flow data end date: 0000-00-00 Daily flow data count:

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Peak flow data count: Water quality data begin date: 0000-00-00

Water quality data end date:0000-00-00 Water quality data count:

Ground water data begin date: 1978-04-20 Ground water data end date: 1982-09-24

Ground water data count: 8

Ground-water levels, Number of Measurements: 8

Feet below Feet to Feet below Feet to Surface Sealevel Date Date Surface Sealevel 1982-09-24 24.38 1982-04-28 1981-09-17 25.12 1981-04-20 24.71 1980-09-26 24.47 Note: Foreign substance was present on the surface of the water. 1980-04-10 21.8 1979-09-24 25.30 1978-04-20 23.73

**A8** NNE 1/2 - 1 Mile Lower

**FED USGS** USGS3227920

Agency cd: **USGS** Site no: 380048121460901

Site name: 002N002E17R002M

Latitude: 380048 EDR Site id: USGS3227920 Longitude: 1214609 Dec lat: 38.01325455

Dec Ion: -121.77023255 Coor meth: М Coor accr: S Latlong datum: NAD27 Dec latlong datum: NAD83 District: 06 State: 06 County: 013

SESE S17 T02N R02E M US Country: Land net:

Location map: ANTIOCH NORTH Map scale: 24000

Altitude: 30.00

Altitude method: Interpolated from topographic map Altitude accuracy: Altitude datum: National Geodetic Vertical Datum of 1929

Upper ChowchillaUpper Fresno. California. Area = 938 sq.mi. Hydrologic:

Topographic: Not Reported

Site type: Ground-water other than Spring Date construction: Not Reported

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag:

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 67.0 Hole depth: 67.0

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count:

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Peak flow data count: Water quality data begin date: 1972-09-20 Water quality data end date:1979-04-17 Water quality data count:

Ground water data begin date: 1972-07-20 Ground water data end date: 1982-09-24

Ground water data count: 28

Ground-water levels, Number of Measurements: 28

	Feet below	Feet to		Feet below	Feet to
Date	Surface	Sealevel	Date	Surface	Sealevel
1982-09-24	24.86		1982-04-28	23.98	
1981-09-17	26.72		1981-04-20	26.47	
1980-09-26	25.35		1980-04-10	24.4	
1979-09-24	26.15		1979-04-17	25.46	
1978-09-25	26.36				

Note: A nearby site that taps the same aquifer was being pumped.

1978-04-20 24.60 1977-09-13 28.14

Note: A nearby site that taps the same aquifer was being pumped. 1977-04-26 29.17

Note: A nearby site that taps the same aguifer was being pumped. 1976-09-16 28.63

Note: A nearby site that taps the same aquifer was being pumped.

1976-04-14 26.29 Note: A nearby site that taps the same aquifer was being pumped.

1975-09-17 27.87 Note: A nearby site that taps the same aquifer was being pumped.

1975-04-08 26.33 Note: A nearby site that taps the same aquifer was being pumped.

1974-09-24 27.03 Note: A nearby site that taps the same aquifer was being pumped.

1974-03-12 24.97

Note: A nearby site that taps the same aquifer was being pumped.

Ground-water levels, continued.

Feet below Feet to Feet below Feet to
Date Surface Sealevel Date Surface Sealevel

1973-10-04 28.64

Note: A nearby site that taps the same aquifer was being pumped.

1973-05-24 24.89 1973-03-22 25.23

Note: A nearby site that taps the same aquifer was being pumped.

1973-02-20 25.83 1973-01-24 26.00

Note: A nearby site that taps the same aquifer was being pumped.

1972-12-20 26.89

Note: A nearby site that taps the same aquifer was being pumped.

1972-11-15 28.91

Note: A nearby site that taps the same aquifer was being pumped.

1972-09-20 28.62

Higher

Note: A nearby site that taps the same aquifer was being pumped.

1972-08-23 26.49 1972-07-20 25.95

Agency cd: USGS Site no: 380016121454501

Site name: 002N002E21L001M

 Latitude:
 380016
 EDR Site id:
 USGS3227864

 Longitude:
 1214545
 Dec lat:
 38.00436596

-121.76356558 Dec Ion: Coor meth: М S Latlong datum: NAD27 Coor accr: Dec latlong datum: NAD83 District: 06 06 013 State: County:

Country: US Land net: NENWSES21 T02N R02E M

Location map: ANTIOCH NORTH Map scale: 24000

Altitude: 50.00

Altitude method: Interpolated from topographic map Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ChowchillaUpper Fresno. California. Area = 938 sq.mi.

Topographic: Hillside (slope)

Site type: Ground-water other than Spring Date construction: 19620101

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 140 Hole depth: 140

Source of depth data: Not Reported Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00
Peak flow data end date: 0000-00-00
Peak flow data count: 0
Water quality data begin date: 1972-09-20
Water quality data end date:1982-09-24
Water quality data count: 26

Ground water data begin date: 1962-01-01

Ground water data end date: 1980-04-10

Ground water data count: 2

Ground-water levels, Number of Measurements: 4

Feet below Feet to Feet below Feet to
Date Surface Sealevel Date Surface Sealevel

 1980-04-10
 22.8

 1962-01-01
 50.00

 1962-01-01
 50.00

10 ENE CA WELLS 1682

1/2 - 1 Mile Lower

Water System Information:

Prime Station Code: 02N/02E-21C01 M User ID: 07C

FRDS Number: 0707554001 County: Contra Costa

District Number: 37 Station Type: WELL/AMBNT/MUN/INTAKE

Water Type: Well/Groundwater Well Status: Active Raw

Source Lat/Long: 380036.0 1214540.0 Precision: 1,000 Feet (10 Seconds)

Source Name: WELL 01 System Number: 0707554

System Name: RIVERVIEW MOTEL

Organization That Operates System:

Not Reported

Pop Served: Unknown, Small System Connections: Unknown, Small System

Area Served: Not Reported

B11 West FED USGS USGS3227884

1/2 - 1 Mile Lower

Agency cd: USGS Site no: 380025121471101

Site name: 002N002E19G001M

 Latitude:
 380025
 EDR Site id:
 USGS3227884

 Longitude:
 1214711
 Dec lat:
 38.00686585

Dec Ion: -121.7874552 Coor meth: Μ Coor accr: NAD27 S Latlong datum: Dec latlong datum: NAD83 District: 06 State: 06 County: 013

Country: US Land net: SWNE S19 T02N R02E M

Location map: ANTIOCH NORTH Map scale: 24000

Altitude: 4.00

Altitude method: Interpolated from topographic map

Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ChowchillaUpper Fresno. California. Area = 938 sq.mi.

Topographic: Flat surface

Site type: Ground-water other than Spring Date construction: 19591102

Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag:

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 140 Hole depth: 155

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00

Peak flow data count: 0 Water quality data begin date: 1971-01-27 Water quality data end date:1982-09-23 Water quality data count: 44 Ground water data begin date: 1970-12-23 Ground water data end date: 1982-09-23

Ground water data count: 43

Ground-water levels, Number of Measurements: 43

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-09-23	9.28		1982-04-28	19.35	
1981-09-18	26.71				
Note: The	site was being	g pumped.			
1979-04-17	14.80		1978-09-25	11.37	
1978-04-17					
	16.19				
		pumped recently.			
1977-04-26	-				
1976-09-16	22.81				
	•	taps the same aquifer was being pumped.			
1976-04-14	20.13				
	•	taps the same aquifer was being pumped.			
1975-09-17	19.16				
	•	taps the same aquifer was being pumped.			
1975-04-07	17.39				
	,	taps the same aquifer was being pumped.			
1974-09-24	12.05		1974-03-11		
1973-10-03			1973-05-23		
1973-03-22			1973-02-22		
1973-01-25			1972-12-19	9.77	
-	10.78		1972-09-20		
	13.13		1972-07-19	-	
1972-06-22			1972-04-18	11.12	
1972-03-21	10.69		1972-02-22	-	
1972-01-19	9.75		1971-12-21	10.62	
1971-11-24	10.66		1971-10-28	10.80	
1971-09-22	10.96		1971-09-21		
1971-08-26	11.08		1971-07-21	11.34	
1971-06-23	11.04		1971-05-20	11.48	
1971-04-22	10.00		1971-03-25	8.80	
1971-03-05	8.98	norman and managed to			
		pumped recently.	4070 40 00	0.04	
1971-01-27	0.31		1970-12-23	0.04	

B12
West FED USGS USGS3227879
1/2 - 1 Mile
Lower

Agency cd: USGS Site no: 380024121471501

Site name: 002N002E19G002M

 Latitude:
 380024
 EDR Site id:
 USGS3227879

 Longitude:
 1214715
 Dec lat:
 38.00658808

 Dec lon:
 -121.78856635
 Coor meth:
 M

Coor accr:SLatlong datum:NAD27Dec latlong datum:NAD83District:06State:06County:013

Country: US Land net: SESENES19T02NR02EM

Location map: ANTIOCH NORTH Map scale: 24000

Altitude: 3.00

Altitude method: Interpolated from topographic map

Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ChowchillaUpper Fresno. California. Area = 938 sq.mi.

Topographic: Flat surface

Site type: Ground-water other than Spring Date construction: 19740101

Date inventoried: Not Reported Date construction: 19740101

Mean greenwich time offset: PST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: Not Reported Hole depth: Not Reported

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00 Water quality data begin date: 1975-04-07

Water quality data end date:1982-09-23 Water quality data count: 10

Ground water data begin date: 0000-00-00 Ground water data end date: 0000-00-00

Ground water data count: 0

Ground-water levels, Number of Measurements: 0

13
NW
FED USGS USGS3227922

1/2 - 1 Mile Lower

Agency cd: USGS Site no: 380048121470701

Site name: 002N002E17N001M

 Latitude:
 380048
 EDR Site id:
 USGS3227922

 Longitude:
 1214707
 Dec lat:
 38.01325453

 Dec lon:
 -121.78634414
 Coor meth:
 M

 Coor accr:
 S
 Latlong datum:
 NAD27

Coor accr:SLatlong datum:NAD27Dec latlong datum:NAD83District:06State:06County:013

Country: US Land net: SWSW S17 T02N R02E M

Location map: ANTIOCH NORTH Map scale: 24000

Altitude: 20.00

Altitude method: Interpolated from topographic map

Altitude accuracy: 10

Altitude datum: National Geodetic Vertical Datum of 1929

Hydrologic: Upper ChowchillaUpper Fresno. California. Area = 938 sq.mi.

Topographic: Flat surface

Site type: Ground-water other than Spring Date construction: 1972
Date inventoried: Not Reported Mean greenwich time offset: PST

Local standard time flag: Y

Type of ground water site: Single well, other than collector or Ranney type

Aquifer Type: Not Reported

Aquifer: ALLUVIUM (QUATERNARY)

Well depth: 500 Hole depth: 500

Source of depth data: Not Reported

Project number: Not Reported

Real time data flag: 0 Daily flow data begin date: 0000-00-00

Daily flow data end date: 0000-00-00 Daily flow data count: 0

Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00

Peak flow data count: Water quality data end date:1981-09-17

Ground water data begin date: 0000-00-00

Ground water data count: 0

Ground-water levels, Number of Measurements: 0

Water quality data begin date: 1972-04-19 Water quality data count: 26

Ground water data end date: 0000-00-00

#### AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
	<del></del>	
94509	8	0

Federal EPA Radon Zone for CONTRA COSTA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94509

Number of sites tested: 2

Area Average Activity % <4 pCi/L % 4-20 pCi/L % >20 pCi/L 0.500 pCi/L Living Area - 1st Floor 100% 0% 0% Living Area - 2nd Floor Not Reported Not Reported Not Reported Not Reported Not Reported Basement Not Reported Not Reported Not Reported

#### PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

H - 345 TC3346200.2s Page A-21

#### PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

#### OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

#### RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208 Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at

private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

H - 346 TC3346200.2s Page A-22

#### PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

#### STREET AND ADDRESS INFORMATION

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

H - 347 TC3346200.2s Page A-23

## APPENDIX C PERTINENT REGULATORY REVIEW RECORDS

Laws, Regulations &

### Pollution Prev

Managing Hazardous Waste

Preventing environmental damage from hazardous wastes, and restoring contaminated sites for all Californians

Public Involvemen

## Cleanup

Science & Tech





Department of Toxic Substances

## **Public Involvement**

FACT SHEET, August 2005

# Cleanup Status at Nine Gaylord Container Corporation Sites

The Department of Toxic Substances Control (DTSC) is working with Gaylord Container Corporation (Gaylord) to address nine properties located in Contra Costa County, Sacramento County, and the City of Antioch (see map on page 2). These nine properties are:

- East Mill
- West Mill
- Industrial Lot with Tank
- Industrial Lot with Railroad Siding
- West Island
- Agricultural Tract
- Recreational Tract
- Vineyard Tract
- Almond Orchard

For the past year, Gaylord has been closing its former manufacturing facilities at the Mill properties. Investigation of these properties will determine whether historical activities resulted in a release of hazardous substances. Gaylord intends to conduct the clean-up activities required by DTSC to return these properties to other productive uses.

#### **PUBLIC INFORMATION**

DTSC has prepared this fact sheet to keep the public informed on the status of environmental assessments and investigations associated with the nine Gaylord sites. Completed reports and other project documents are available at the local information repositories listed below. If you have any questions about any of these projects, please contact DTSC Project Manager, Janet Naito at DTSC, 700 Heinz Avenue, Berkeley, CA 94710 or call (510) 540-3833 or email at jnaito@dtsc.ca.gov. For public participation questions, please contact DTSC Public Participation Specialist Nancy Cook at DTSC, 700 Heinz Avenue, Berkeley, CA 94710 or call (510) 540-3923 or email at ncook@dtsc.ca.gov.

City of Antioch Public Library 501 18<sup>th</sup> Street Antioch, CA 94531 (925) 757-9224

Hours: M-W 10:00 A.M. -8:00 P.M.;

Th 12:00 A.M. – 8:00 P.M.; Fri 12:00 P.M. – 6:00 P.M.; Sat 10:00 A.M. – 6:00P.349 DTSC File Room 700 Heinz Avenue, Suite 200 Berkeley, CA 94710 (510) 540-3800

Hours: M-F 8:00 A.M. - 5:00 P.M.

Please call for an appointment

#### Where Are The Sites Located?

The East Mill, West Mill, Industrial Lot with Railroad Siding, Vineyard Tract, and Almond Orchard are located in unincorporated Antioch. West Island is a naturally occurring Island located in the San Joaquin River. The Agricultural and Recreational Tracts and the Industrial Lot with Tank are located in the City of Antioch. See the figure below for the nine locations.

#### What are the Cleanup Process Steps?

The first step is to determine whether there has been a release of chemicals at the Site which pose a threat to public health or the environment. This information is documented in a Preliminary Endangerment Assessment (PEA) report. Each of the nine sites must complete a PEA to determine if further cleanup activities are required.

If further cleanup activities are required, a remedy selection document will be prepared and released for public review and comment.

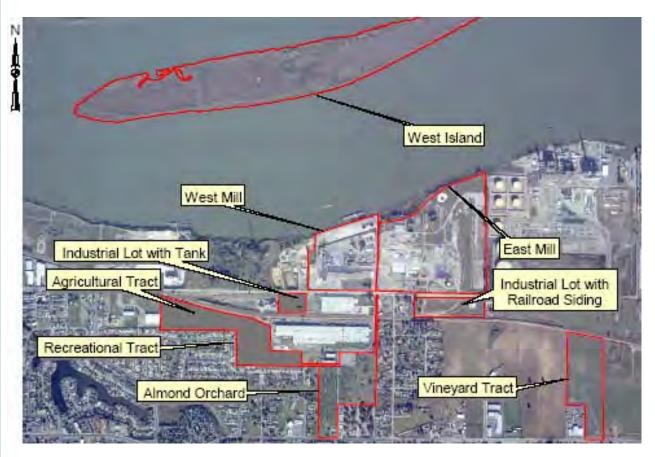
In some cases, deed restrictions and/or Operation and Maintenance (O&M) Agreements are necessary as part of the remedy.

A Certificate of Completion is issued to the responsible party when they have satisfactorily completed the investigation and addressed any identified hazardous substances released at a site.

#### **What Activities Have Occurred?**

WEST MILL – Demolition of West Mill structures has been underway since October 2004. Removal of an out-of-service underground fuel oil pipeline began in April 2005. A PEA Work Plan for the investigation of this site is currently being prepared.

EAST MILL – Most of the facilities have been demolished and removed since the late 1990s, including a fuel oil tank that was removed in late, 2004. In October 2004, a Remedial Action Plan was approved for the removal of the black liquor pond. Approximately 45,000 tons of material was excavated and properly disposed at a landfill. The black liquor pond area has been backfilled and revegetated. Site investigations continue in accordance with a Remedial Investigation Workplan approved by DTSC in May 2005 to determine if further cleanup activities are necessary.



WEST ISLAND – DTSC approved a PEA for this Site in June 2005. No chemicals were detected in soil that posed a significant risk to public health or the environment. No restrictions are required by DTSC on this property for future land use. DTSC issued a Certificate of Completion for this site in June 2005.

INDUSTRIAL LOT WITH TANK – The Aboveground Storage Tank (AST) was removed in 2004. A PEA for this site was completed in June 2005. The PEA indicates that the Site does not pose a significant risk to public health or the environment. It is currently under DTSC review for approval.

INDUSTRIAL LOT WITH RAILROAD SIDING – An initial soil investigation was conducted in July 2003. A supplemental soil and groundwater investigation was conducted in August 2004. A PEA was completed in February 2005. The PEA did not identify any unacceptable risks to human health and the environment. The PEA has been submitted to the DTSC for review and approval.

VINEYARD TRACT – An initial soil investigation was conducted in January 2003. A supplemental soil and groundwater investigation was conducted in August 2004. A PEA was completed in June 2005. The PEA did not identify any unacceptable risks to human health and the environment. The PEA has been submitted to the DTSC for review and approval.

THE RECREATIONAL AND AGRICULTURAL TRACTS – This site also includes the northern portion of the Almond Orchard. Soil investigations were conducted in 2003, 2004, and 2005. A PEA was completed in April 2005 that found no unacceptable risks to human health and the environment are expected under the proposed recreational future land use. These sites were recently sold to the Antioch Youth Sports Complex Corporation (AYSCC) for use as recreational ball fields.

Following a 30-day public comment period in April 2005, DTSC approved a PEA and entered into a deed restriction and an Operation and Maintenance (O&M) Agreement with the AYSCC. The deed restriction and O&M Agreement require

maintenance of the parking lot on the Recreational Tract and ensure that future development does not include sensitive uses such as residential housing, hospitals, schools or day care centers. Certificates of Completion were then issued for the Agricultural Tract and Recreational Tract in June 2005.

ALMOND ORCHARD – This site is also referred to as the Southern Almond Orchard. Soil investigations were conducted in August 2004. A PEA was completed in April 2005. No chemicals were identified in soil at levels that could pose a significant risk to human health and the environment. No restrictions are required by DTSC on future land use. A Certificate of Completion was issued in June 2005.

#### **Certificates of Completion**

Certificates of Completion have been issued for four of the nine sites:

- West Island;
- Agricultural Tract (subject to compliance with the deed restriction and O&M Agreement);
- Recreational Tract (subject to compliance with the deed restriction and O&M Agreement); and
- Almond Orchard.

#### Notice to hearing impaired individuals

TDD users can obtain information about the site by using the California State Relay Service (888) 877-5378 to reach the Public Participation Specialist.

#### **Anuncio**

Si prefiere hablar con alguien en español acerca de ésta información, favor de llamar a Jacinto Soto, Departamento de Control de Substancias Tóxicas. El número de teléfono es (510) 540-3842.

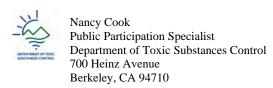
#### For More Information

If you would like more information about these parcels or reports please contact Janet Naito, DTSC Project Manager, at (510) 540-3833 or email at jnaito@dtsc.ca.gov.

For information about public participation and community involvement, please contact Nancy Cook at (510) 540-3923 or email at ncook@dtsc.ca.gov.

For media questions, please contact Angela Blanchette, DTSC Public Information Officer, at (510) 540-3732 or email at ablanche@dtsc.ca.gov.

DTSC WEBSITE - For more information about DTSC please visit: www.dtsc.ca.gov



Laws, Regulations &

### Pollution Prev

Managing Hazardous Waste

damage from hazardous
wastes, and restoring
contaminated sites for all
Californians

Public Involvemen



Science & Tech





Department of Toxic Substances
Control

## **Public Involvement**

FACT SHEET, April 2005

## DTSC Completes Preliminary Endangerment Assessments for Gaylord Container Corporation

The Department of Toxic Substances Control (DTSC) has completed environmental assessments called Preliminary Endangerment Assessments for three properties owned by Gaylord Container Corporation in Antioch, California. These three properties are located at 1030 Apollo Court and 2101 E. 18<sup>th</sup> Street in eastern Antioch and are identified as the:

- Agricultural Tract;
- Recreational Tract; and
- Northern and Southern Almond Orchard.

Gaylord Container Corporation is proposing completion of the environmental response program for these three properties.

The environmental assessments were conducted to determine whether historical activities at these properties resulted in the release of hazardous substances at levels that could pose a threat to public health or the environment. Based on the results of these assessments, a legal document called a Deed Restriction will be placed on the Agricultural and Recreational Tracts. The Deed Restriction will place limits and requirements on future use of these properties. An Operation and Maintenance (O&M) Plan was developed for maintaining the parking area on the Recreational Tract. No further action is required for the northern and southern Almond Orchard. DTSC is proposing a Notice of Exemption to comply with the California Environmental Quality Act (CEQA) that states that the project will not have a significant effect on the environment for the final remedy.

#### **PUBLIC COMMENT PERIOD**

DTSC is holding a 30-day public review and comment period on the Preliminary Endangerment Assessments (PEAs) for three properties owned by Gaylord Corporation in the Antioch area, a Deed Restriction and a CEQA Notice of Exemption. DTSC will consider and respond to all public comments before making a final decision on these sites.

The Public Comment period is: APRIL 20 to MAY 20, 2005

The complete PEAs, Deed Restriction, Notice of Exemption and other project documents are available at the local information repositories listed on this fact sheet. Please send comments, postmarked by May 20, 2005 to Janet Naito, DTSC, 700 Heinz Avenue, Berkeley, CA 94710. Please submit a written request if you are interested in a public meeting, including the issues to be raised, to Nancy Cook at DTSC, 700 Heinz Avenue, Berkeley, CA 94710 by the end of the public comment period.

H - 353

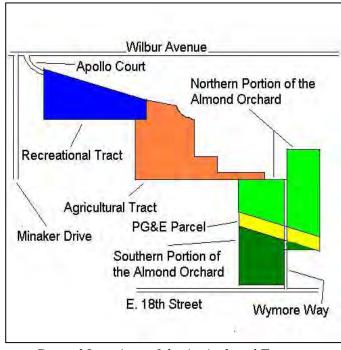
The Agricultural Tract, Recreational Tract and northern portion of the Almond Orchard were recently sold to the Antioch Youth Sports Complex Corporation (AYSCC). The Recreational Tract currently includes community ball fields, bleachers, and a concession stand. AYSCC plans to develop the Agricultural Tract for recreational use and the northern portion of the Almond Orchard as a parking lot for the Sports Complex. There are currently no development plans for the southern portion of the Almond Orchard.

#### Where Are The Sites Located?

The Recreational Tract, Agricultural Tract and northern portion of the Almond Orchard are located at 1030 Apollo Court in Antioch. The southern portion of the Almond Orchard is located at 2101 E. 18<sup>th</sup> Street in Antioch.

The approximately 14 acre Recreational Tract is bordered to the south by residential lots, to the north and west by commercial/industrial development, and to the east by the Agricultural Tract.

The approximately 16 acre Agricultural Tract is bordered to the west and south by residential lots and to the north and east by commercial/industrial development.



General Locations of the Agricultural Tract, Recreational Tract, and the Almond Orchard

The approximately 16 acre northern portion of the Almond Orchard is bordered to the east and west by mixed-use properties (residential and commercial), to the north by commercial/industrial development, and to the south by a PG&E parcel.

The approximately 9 acre southern portion of the Almond Orchard located directly south of the PG&E parcel. It is bordered to the south by E. 18<sup>th</sup> Street and to the east and west by residential lots.

## Results of the Preliminary Endangerment Assessments

Two PEAs were conducted for the properties described in this fact sheet. One PEA addressed the Agricultural Tract, Recreational Tract and the northern portion of the Almond Orchard. The second PEA addressed the southern portion of the Almond Orchard.

#### **Agricultural/Recreational Tracts**

No health risks were identified based upon past historical operations. The PEA evaluated the chemical levels detected in soil and identified potential health risks only if the tracts were developed for residential and other sensitive uses. Recreational use was evaluated and determined to be safe. A Deed Restriction will be placed on these areas to ensure future development does not include sensitive uses such as residential housing, hospitals, schools or day care centers.

Ongoing maintenance of the parking lot on the Recreational Tract will also be required into the future. A commercially produced material, referred to as "Sierra-Crete<sup>®</sup>," was placed beneath the parking lot during its construction by the City of Antioch as a base material. Sierra Crete®, which had been used as a roadbase material in many locations throughout eastern Contra Costa County, was subsequently found to contain elevated levels of dioxins. Dioxins are formed through both human activity such as fuel combustion or paper manufacturing and through natural processes such as forest fires. Exposure to high enough levels may cause harmful effects such as skin rashes, skin discoloration and possibly cancer. Individuals using the parking lot and Sports Complex will not be exposed to the Sierra Crete® because it is covered by the asphalt parking lot.



Northern Portion of the Almond Orchard

To ensure that the parking lot is maintained, the Deed Restriction will contain requirements for operation and maintenance of the parking lot. The Deed Restriction will require the parking lot on the Recreational Tract to be inspected twice a year. Any cracks or degraded pavement exposing the underlying Sierra Crete<sup>®</sup> must be repaired promptly. The AYSCC is responsible for implementation of these requirements.

#### **Almond Orchard**

The PEAs for the northern and southern portions of the Almond Orchard found that there were no chemicals present in soil that were related to historical operations. Thus, these parcels do not pose an unacceptable potential risk to human health and the environment. No restrictions are required by DTSC on future land use.

#### **Certificates of Completion**

Three Certificates of Completion will be issued by the DTSC. All three certificates indicate that, subject to certain conditions, no further environmental response actions will be required. The Recreational Tract Certificate of Completion will require ongoing compliance with the O&M Plan and Deed Restriction. The Agricultural Tract Certificate of Completion will

require ongoing compliance with the Deed Restriction. The Almond Orchard Certificate of Completion does not require future use restrictions.

## Documents Available for Public Review and Comment

The following documents are available for public review and comment:

- PEA for the Agricultural Tract, Recreational Tract, and Northern Almond Orchard
- Southern Almond Orchard Preliminary Endangerment Assessment
- Deed Restriction for the Agricultural and Recreational Tracts.
- Notice of Exemption

These documents, as well as other documents in the Administrative Record, may be reviewed at the repositories below.

#### **Information Repositories**

The Preliminary Endangerment Assessments, Deed Restriction, and other project documents are available for review at:

City of Antioch Public Library 501 18<sup>th</sup> Street Antioch, CA 94531 (925) 757-9224 Hours:

> Mon-Wed 10:00 a.m. – 8:00 p.m. Thur 12:00 p.m. – 8:00 p.m. Fri 12:00 p.m. – 6:00 p.m. Sat 10:00 a.m. – 6:00 p.m.

DTSC File Room 700 Heinz Avenue, Suite 200 Berkeley, CA 94710 (510) 540-3800 Hours: Mon – Fri 8:00 a.m. – 5:00 p.m.

Please call for an appointment.

H - 355

#### For More Information

If you would like more information about these parcels or have questions about the Preliminary Endangerment Assessment, Operation and Maintenance Plan, or Deed Restriction, please contact Janet Naito, DTSC Project Manager, at (510) 540-3833 or email at jnaito@dtsc.ca.gov.

For information about public participation and community involvement, please contact Nancy Cook at (510) 540-3923 or email at ncook@dtsc.ca.gov.

For media questions, please contact Angela Blanchette, DTSC Public Information Officer, at (510) 540-3732 or email at ablanche@dtsc.ca.gov.

#### Notice to hearing impaired individuals

TDD users can obtain information about the site by using the California State Relay Service (888) 877-5378 to reach the Public Participation Specialist.

#### **Anuncio**

Si prefiere hablar con alguien en español acerca de ésta información, favor de llamar a Jacinto Soto, Departamento de Control de Substancias Tóxicas. El número de teléfono es (510) 540-3842.



The Mission of the
Department of
Toxic Substances
Control is to
provide the highest
level of safety, and
to protect public
health and the
environment from
toxic harm.





#### Fact Sheet, September 2010

# Draft Cleanup Document for the Former Gaylord Container Corporation - West Mill Antioch Site Available for Public Review and Comment

#### Introduction

A draft cleanup document (called a Removal Action Work Plan or RAW) proposing how to clean up contaminated soil at the former Gaylord Container Corporation West Mill facility site (Site), located at 2301 Wilbur Avenue in unincorporated Antioch, Contra Costa County, California, is now available for public review and comment. The draft RAW proposes a recommended cleanup alternative for cleaning up contaminated soil at the Site.

The Department of Toxic Substances Control (DTSC) is the regulatory agency that provides oversight of environmental investigations and cleanups of hazardous substance sites. DTSC ensures the sites are cleaned up in a way that is protective of human health and the environment.

#### **Site History**

The facility at the Site operated as a paperboard/linerboard manufacturer using old corrugated cardboard and recycled fiber as raw material to produce linerboard beginning in 1956. In 2002, operations ceased, and environmental investigations and demolition activities began. The current owner acquired the property in December 2007, and most of the former facility improvements have been demolished. The Site is currently vacant, fenced, and there is a security guard on the property.

Past activities at the Site resulted in contamination of soil with Polychlorinated Biphenyls (PCBs) at the Paper Process Unit Area, north of the former Paper Machine Building. Prolonged exposure to PCBs has the potential to negatively impact human health and the environment.

Groundwater has not been impacted by Site contamination and is therefore not in need of remediation. However, to ensure that contamination does not become a concern, groundwater monitoring wells have been installed and periodic testing is ongoing.

#### **PUBLIC COMMENT PERIOD**

September 8, 2010 to October 8, 2010

DTSC encourages you to review and comment on the Draft RAW. DTSC is holding a 30-day public comment period from September 8, 2010 to October 8, 2010. All comments must be postmarked by October 8, 2010. All e-mailed comments must be received that same day. Please submit your comments to:

Katherine Hilf
DTSC Project Manager
700 Heinz Avenue
Berkeley, California 94710-2721
email: khilf@dtsc.ca.gov

#### It Is Important to Note

There is no immediate health risk because the public is not exposed to the contaminated soil, however, based on the possible future uses of the property, PCBs in soil exist at concentrations that could pose a potential risk to human health and the environment. As a result, DTSC has recommended that a draft cleanup plan be prepared and made available to public for their review and comment.

#### **Proposed Cleanup Option**

The preferred proposed cleanup option is Excavation and off-Site Disposal of Contaminated Soil to an Appropriate Off-Site Disposal Facility.

Excavation would consist of using loaders, backhoes, and other equipment to excavate approximately 425 cubic yards of contaminated soil. The soil would be segregated, stockpiled on Site, and sampled. After the excavation was completed, soil samples would be taken in the excavated areas to ensure that all contaminated soils exceeding acceptable levels had been removed. The contaminated soil would then be transported to an off-Site permitted disposal facility.

Soil that is found to be within acceptable levels might be used along with clean fill to backfill the excavated areas. The Site would then be regraded to its original condition.

Trucks would leave the Site by traveling east on Wilbur Avenue, merging onto Hwy 160, and then merging onto Hwy 4. Trucks would arrive and depart the Site only between the hours of 7 a.m. and 6 p.m. It is estimated that approximately 40 truck loads of soil in all would be transported from the Site. The proposed hauling route avoids transporting the soil through residential areas. The soil cleanup project would require approximately three to four weeks to complete.

Groundwater monitoring wells within the limits of the excavation will be abandoned prior to excavation and replaced as necessary upon completion of excavation activities.

#### Effects of the Cleanup on the Environment Before a cleanup method can be approved, it

Before a cleanup method can be approved, it must meet the requirements of a California State

law known as the California Environmental Quality Act (CEQA).

CEQA is important because it determines what impacts, if any, the proposed cleanup would have on the environment. DTSC has determined that a Notice of Exemption under CEQA is appropriate for the proposed cleanup.

A Notice of Exemption is a document that states that a proposed cleanup will not have a negative effect on the environment. The Notice of Exemption for this project is also available for review during the comment period for the draft RAW.

#### **Next Steps**

At the end of the public comment period, DTSC will review and consider all public comments and make any necessary revisions to the draft RAW prior to final approval. A document called a Response to Comments will be developed by DTSC. The Response to Comments will provide all comments submitted during the comment period and DTSC's responses to those comments. It will be mailed to anyone who submitted a comment and provides a mailing address and/or an email address, to anyone who requests a copy, at the City of Antioch Public Library, DTSC's Berkeley office, and via the web on EnviroStor (see section immediately following for contact information and locations).

#### Where to Find the Documents

The draft RAW and other site-related documents are available for review at the following locations:

#### City of Antioch Public Library

501 W. 18th Street Antioch, California 94531 Please call (925) 757-9224 for days and hours of operation.

#### Administrative Record

Department of Toxic Substances Control 700 Heinz Avenue Berkeley, California 94710-2721 Please call (510) 540-3800 to make an appointment.

#### Via the Web at:

http://www.envirostor.dtsc.ca.gov/public/. Once at the website, type the word 'Antioch' in the box titled 'City' and take the cursor to the 'Get Report' key near the bottom of the screen and click once. Choose the project titled 'West Mill'. Take the cursor to the 'Report' field and click once. The screen will provide you with several documents available for review by the public. A computer is available in the DTSC file room for your use.

#### **How to Submit Comments**

The public comment period will run from September 8, 2010 through October 8, 2010. All public comments must be postmarked or e-mailed by October 8, 2010 and sent to the attention of Katharine Hilf, DTSC Project Manager, 700 Heinz Avenue, Berkeley, California 94710-2721. You can also submit comments by email to khilf@dtsc.ca.gov.

#### For More Information

If you have questions regarding the Site or the project, please contact:

#### **Katharine Hilf**

DTSC Project Manager 700 Heinz Avenue Berkeley, California 94710-2721 (510) 540-3817 khilf@dtsc.ca.gov

#### Heidi Nelson

DTSC Public Participation Specialist 8800 Cal Center Drive Sacramento, California 95826 (916) 255-3575 or toll-free at (866) 495-5656 hnelson@dtsc.ca.gov

#### **Media Inquiries**

Kam Coveyou
DTSC Public Information Office
P.O. Box 806
Sacramento, California 95812-0806
(916) 324-8304
kcoveyou@dtsc.ca.gov

#### **Notice to Hearing-Impaired Individuals**

To obtain information or ask questions about the Site, please contact the California State Relay Service at 1.888.877.5378 (TDD) and ask that Katharine Hilf be contacted regarding the West Mill project.

#### **Annuncio**

Si prefiere hablar con alguien en español acerca de ésta información, favor de llamar a Jacinto Soto, Departamento de Control de Substancias Tóxicas. El número de teléfono es 510-540-3842, jsoto@dtsc.ca.gov

#### **Notice to Hearing-Impaired Individuals**

You can obtain additional information about the Site by using the California State Relay Service at (888) 877-5378 (TDD). Ask them to contact Katharine Hilf regarding the West Mill site.

#### **Comment Form for The West Mill Site Draft RAW**

If you use this form to send us your comments, please include your name and address. All comments must be submitted no later than October 8, 2010. Please send this form to:

Katherine Hilf, DTSC Project Manager 700 Heinz Avenue Berkeley, California 94710

You may also email this same information to: khilf@dtsc.ca.gov
Name:
Address:
Affiliation (if any):
Phone number and/or email address(optional):
<del></del>
•
Comments: (If you need more space, please feel free to use another sheet of paper)
Would you like to be added or removed from The Learner Company Site Mailing list? If you would like to be added or removed from the mailing list for The West Mill site, please complete the information below and return to Heidi Nelson, 8800 Cal Center Drive, Sacramento, California, 95826 You can e-mail your request to be added or removed from the mailing list to hnelson@dtsc.ca.gov.
Please remove my name from the mailing list
Please add my name to the mailing list
Name:
Address:
City/State/Zip:
Note: While this mailing list is solely for DTSC use, the list is considered a public record



http://www.epa.gov/epawaste/hazard/tsd/pcbs/pubs/about.htm Last updated on Tuesday, April 03, 2012

#### Polychlorinated Biphenyls (PCBs)

You are here: <u>EPA Home</u> <u>Was</u>tes Polychlorinated Biphenyls (PCBs) Basic Information

#### **Basic Information**

#### Polychlorinated Biphenyl (PCB)

PCBs belong to a broad family of man-made organic chemicals known as chlorinated hydrocarbons. PCBs were domestically manufactured from 1929 until their manufacture was banned in 1979. They have a range of toxicity and vary in consistency from thin, light-colored liquids to yellow or black waxy solids. Due to their non-flammability, chemical stability, high boiling point, and

Learn more about PCBs

- Basic Information
- Health Effects
- PCB Congeners and Homologs
- Aroclor and other PCB Mixtures

electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment; as plasticizers in paints, plastics, and rubber products; in pigments, dyes, and carbonless copy paper; and many other industrial applications.

#### **Commercial Use of PCBs**

Although no longer commercially produced in the United States, PCBs may be present in products and materials produced before the 1979 PCB ban. Products that may contain PCBs include:

- Transformers and capacitors
- Other electrical equipment including voltage regulators, switches, reclosers, bushings, and electromagnets
- Oil used in motors and hydraulic systems
- Old electrical devices or appliances containing PCB capacitors
- Fluorescent light ballasts
- Cable insulation
- Thermal insulation material including fiberglass, felt, foam, and cork
- Adhesives and tapes
- Oil-based paint
- Caulking
- Plastics
- Carbonless copy paper
- Floor finish

The PCBs used in these products were chemical mixtures made up of a variety of individual chlorinated biphenyl components, known as congeners. Most commercial PCB mixtures are known in the United States by their industrial trade names. The most common trade name is Aroclor.

#### Release and Exposure of PCBs

Prior to the 1979 ban, PCBs entered the environment during their manufacture and use in the United States. Today PCBs can still be released into the environment from poorly maintained hazardous waste sites that contain PCBs; illegal or improper dumping of PCB wastes; leaks or releases from electrical transformers containing PCBs; and disposal of PCB-containing consumer products into municipal or other landfills not designed to handle hazardous waste. PCBs may also be released into the environment by the burning of some wastes in municipal and industrial  $_{\mbox{\scriptsize H-361}}^{\mbox{\scriptsize H-361}}$ 

incinerators.

Once in the environment, PCBs do not readily break down and therefore may remain for long periods of time cycling between air, water, and soil. PCBs can be carried long distances and have been found in snow and sea water in areas far away from where they were released into the environment. As a consequence, PCBs are found all over the world. In general, the lighter the form of PCB, the further it can be transported from the source of contamination.

PCBs can accumulate in the leaves and above-ground parts of plants and food crops. They are also taken up into the bodies of small organisms and fish. As a result, people who ingest fish may be exposed to PCBs that have bioaccumulated in the fish they are ingesting.

#### **Health Effects**

PCBs have been demonstrated to cause cancer, as well as a variety of other adverse health effects on the immune system, reproductive system, nervous system, and endocrine system. See the <u>Health Effects</u> page for more information.





#### **Central Valley Regional Water Quality Control Board**

23 May 2012

Mr. Neftali Nevarez GWF Power Systems, L.P. 4300 Railroad Avenue Pittsburg, CA 94565

RESCISSION OF MONITORING AND REPORTING PROGRAM ORDER NO. R5-2008-0832, GWF POWER SYSTEMS, L.P., WILBUR WEST POWER PLANT SITE, 1900 WILBUR AVENUE, ANTIOCH, CONTRA COSTA COUNTY

Central Valley Regional Water Quality Control Board staff has evaluated the petroleum hydrocarbon release at 1900 Wilbur Avenue (Site) for closure. As the Site monitoring wells were destroyed according to Contra Costa County's specifications on 7 March 2012, GWF Power Systems, L.P. has fulfilled all the specific requirements outlined in the Monitoring and Reporting Program No. R5-2008-0832 (MRP) including conducting quarterly and annual groundwater monitoring at the site since 2008; therefore, the MRP is no longer necessary and is hereby rescinded.

If you have questions about this letter, you may call Patricia Vellines at (916) 464-4696.

PAMELA C. CREEDON Executive Officer

cc: Mr. Les Miyashiro, Contra Costa County Environmental Health Department, Martinez Ms. Kristin Bolen, TRC, Concord

APPROVED	
Author	
Senior	

#### REMOVAL ACTION WORKPLAN APPROVAL RECORD

Groundwater PCE Plume

Site Name:

East Mill (Former Gaylord Container Corporation- East Mill)

Site Location:

2603 Wilbur Avenue, Antioch, California

Regional Office:

Brownfields Environmental and Restoration Program (Cleanup)

Berkeley Office

The undersigned have reviewed the attached Removal Action Workplan (RAW) and determined that it meets state and federal statutory, regulatory, policy and technical requirements. The RAW was circulated for public comment and thereafter was revised as deemed appropriate.

Project Manager: Katharine Hilf

10-26-2011 Date

Unit Chief: Daniel Murphy

Date



#### A Report Prepared For:

Department of Toxic Substances Control 700 Heinz Avenue, Bldg. F., Suite 200 Berkeley, California 94710-2712

Attention: Ms. Katharine Hilf

# FINAL REMOVAL ACTION WORK PLAN PCE GROUNDWATER PLUME EAST MILL FORMER GAYLORD CONTAINER CORPORATION FACILITY ANTIOCH, CALIFORNIA

**OCTOBER 27, 2011** 

By:

Scott M. Morrison, P.E.

Senior Engineer

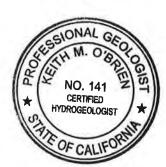
Susan Gahry, P.E.

Principal Engineer

Keith O'Brien, C.HG. Principal Hydrogeologist

1178.001.03.081





#### TABLE OF CONTENTS

LIST OF TABLES	iv
LIST OF ILLUSTRATIONS	
LIST OF ABBREVIATIONS AND ACRONYMS	
EXECUTIVE SUMMARY	ES-1
1.0 INTRODUCTION	1
2.0 SITE BACKGROUND	2
2.1 Site Location	2
2.2 Site History	2
2.3 Climate and Geologic Conditions	
2.4 Hydrogeologic Conditions	
2.5 Prior Site Characterizations	
2.6 Nature and Extent of PCE Plume	
2.7 ISCO Pilot Study	7
3.0 REMOVAL ACTION GOALS	9
3.1 Removal Action Goals	9
3.2 Applicable or Relevant and Appropriate Requirements (ARARs)	11
4.0 REMOVAL ACTION ALTERNATIVE EVALUATION AND SELECTION	12
4.1 Identification and Description of Removal Action Alternatives	
4.1.1 Alternative 1 - No Action	
4.1.2 Alternative 2 – In-Situ Chemical Oxidation (ISCO) using Permanganate	12
4.1.3 Alternative 3 – In-Situ Bioremediation	14
4.2 Alternative Evaluation Criteria	15
4.2.1 Effectiveness	16
4.2.2 Implementability	
4.2.3 Cost	_
4.3 Analysis of Removal Action Alternatives	
4.3.1 Alternative 1 – No Action	
4.3.2 Alternative 2 - In-Situ Chemical Oxidation (ISCO) using Permanganate	
4.3.2.1 Effectiveness	
4.3.2.2 Implementability	
4.3.2.3 Costs	
4.3.3.1 Effectiveness	
4.3.3.2 Implementability	
4.3.3.3 Costs	
4.4 Comparative Analysis of Removal Action Alternatives	
4.4.1 Effectiveness.	
4.4.2 Implementability	

## TABLE OF CONTENTS (Continued)

	ended Removal Action Alternative	
	ACTION (PERMANGANATE) IMPLEMENTATION PLAN	
	Order Requirements	
	ion of Additional Lower Zone Groundwater Monitoring Wells	
	oundwater Monitoring Program	
	noval Action Groundwater Monitoring Well Network	
	Monitoring	
	ent Analysis	
	nate Injection Plan	
5.8.1 Sodiu	ım Permanganate Volume	31
	ery	
-	ion	
	anganate Contingency Plan	
5.9 Post-Injec	tion Monitoring	34
	E SCHEDULE	
7.0 CEQA REQ	UIREMENTS AND PUBLIC PARTICIPATION	35
TABLES		
ILLUSTRATION	NS	
APPENDICES	A - LABORATORY HEXAVALENT CHROMIUM DISCUSS	SION
	B – CARUS METHOD FOR HEXAVALENT CHROMUIUM WHEN PURPLE COLOR IS PRESENT	ANALYSIS
	C - PERMANGANATE CALCULATIONS	
	D – REGENESIS PROPOSAL FOR HRC®	
	E – METHODS AND DETAILS FOR CONSTRUCTION OF ADDITIONAL LOWER ZONE GROUNDWATER MON- WELLS	ITORING
	F – GROUNDWATER SAMPLING PROCEDURES	
	G – DETERMINATION OF TOTAL PERMANGANATE DEM	MAND
	H – CALIFORNIA ENVIRONMENTAL QUALITY ACT (CE NOTICE OF EXEMPTION	QA)
	I – RESPONSIVENESS SUMMARY	

#### **DISTRIBUTION**

117800103W004.docx

iii

#### LIST OF TABLES

Table 1	Well Construction Details
Table 2	Historical PCE, PCE Degradation Product, and Chromium Groundwater Analytical Results
Table 3	List of Potential ARARs and TBCs
Table 4	Cost Comparison of Removal Action Alternatives
Table 5	Comparison of Groundwater Removal Action Alternatives

117800103W004.docx **i**V

#### LIST OF ILLUSTRATIONS

Plate 1	Site Location Map
Plate 2	Site Plan
Plate 3	CPT/MIP and Cross-Section Location Map
Plate 4	Hydrogeologic Cross-Section A-A'
Plate 5	Hydrogeologic Cross-Section B-B'
Plate 6	Monitoring Well Location Map
Plate 7	PCE Soil Vapor Results (10 feet bgs)
Plate 8	PCE Soil Vapor Results (20 feet bgs)
Plate 9	PCE in Groundwater Wells - Upper Zone (November 2010)
Plate 10	PCE in Groundwater Wells - Lower Zone (November 2010)
Plate 11	Pilot Study Monitoring Well Locations
Plate 12	Proposed Permanganate Injection Plan, Upper Zone
Plate 13	Proposed Permanganate Injection Plan, Lower Zone

V

#### LIST OF ABBREVIATIONS AND ACRONYMS

% percent

 $^{\circ}F$  degrees Fahrenheit  $\mu g/L$  micrograms per liter

AOIs Areas of Interest

ARARS Applicable or Relevant and Appropriate Requirements

BBL Blasland, Bouck, and Lee, Inc.

BDI Bio-Dechlor Inoculum bgs below ground surface

Carus Chemical, Inc.

CCCEHD Contra Costa County Environmental Health Division

CEQA California Environmental Quality Act

cis-1,2-DCE cis-1,2-dichloroethylene CPT cone penetrometer testing

d/b/a doing business as

DI de-ionized

DTSC California Department of Toxic Substances Control

EPA United States Environmental Protection Agency

EPA Guidance Guidance on Conducting Non-Time-Critical Removal Actions Under

**CERCLA** 

ERD Enhanced Reductive Dechlorination

foc fraction of organic carbon

Forestar Forestar (USA) Real Estate Group, Inc.

g/kg grams per kilogram

Gaylord Gaylord Container Corporation, d/b/a Inland Paperboard and

Packaging, Inc.

General Order Order No. R5-2008-0149, Waste Discharge Requirements,

General Order for In-Situ Groundwater Remediation at Sites with Volatile Organic Compounds, Nitrogen Compounds, Perchlorate, Pesticides, Semi-Volatile Compounds, Hexavalent Chromium and/or

Petroleum Hydrocarbons

gpm gallons per minute

HASP Health and Safety Plan

H-I heavy industrial

HRC® hydrogen release compound

117800103W004.docx

## LIST OF ABBREVIATIONS AND ACRONYMS (Continued)

IDW investigation-derived waste ISCO in-situ chemical oxidation

Kd soil to groundwater distribution coefficient

Koc organic carbon partition coefficient

MCL Maximum Contaminant Level MIP membrane interface probe

MRP Monitoring and Reporting Program

NCP National Oil and Hazardous Substances Pollution Contingency Plan

NOI Notice of Intent NOM natural organic matter NPA Non-Processing Area

OSHA Occupational Safety and Health Administration

PCE tetrachloroethylene

PES PES Environmental, Inc. PRSC post-removal site control

RAW Removal Action Workplan

RWQCB Central Valley Regional Water Quality Control Board

site Former Gaylord Container Corporation Facility, East Mill

SIWP site investigation work plan

SOD soil oxidant demand

TBC "to be considered"
TCE trichloroethylene
TDS total dissolved solids
TI Temple-Inland Inc.

USA United States of America

VOCs volatile organic compounds

WQOs water quality objectives

#### **EXECUTIVE SUMMARY**

This Removal Action Work Plan (RAW) has been prepared by PES Environmental, Inc. on behalf of Forestar (USA) Real Estate Group, Inc. for the former Gaylord Container Corporation Facility, East Mill, located at 2603 Wilbur Avenue in Antioch, California. This RAW was developed to address groundwater affected with tetrachloroethylene (PCE) at the Non-Processing Area (NPA) of the East Mill (site). This RAW provides relevant site background information, summarizes site conditions, identifies removal action goals, identifies and analyzes removal action alternatives, recommends a removal action alternative, provides an implementation plan for the recommended removal action alternative, discusses California Environmental Quality Act (CEQA) and public notice requirements, and provides a tentative schedule for removal action implementation.

PCE usage at the site was never documented. Previous investigations to evaluate potential PCE source areas and to define the extent of the PCE groundwater plume have included an active soil vapor survey, membrane interface probe (MIP) investigation, and cone penetrometer testing. Soil vapor concentrations from the 2009 soil vapor survey were generally low and did not conclusively identify a source. A laterally extensive fine-grained unit (comprised of sandy silt to silty clay) at depths of 28 to 34 feet below ground surface (bgs) has been identified at the site. Qualitative readings (i.e., photo-ionization detector and the electron capture device on the MIP) collected during the 2009 investigation suggest the presence of higher concentrations of PCE within the fine-grained unit. Two water-bearing zones, separated by the fine-grained unit, are documented at the site: (1) the upper zone (from approximately 25 to 30 feet bgs); and (2) the lower zone (from approximately 35 to 100 feet bgs). Groundwater is encountered at depths ranging from approximately 8 feet bgs near the river, to approximately 28 feet bgs in the southern portion of the site, with inferred groundwater flow to the north-northwest toward the San Joaquin River.

Based on the distribution and extent of the PCE plume in groundwater, it is possible that multiple sources were present. A likely release scenario is that PCE was released into the upper zone sands, leaked through the fine-grained unit and distributed into the lower zone sands. The PCE groundwater plume within the lower zone is more laterally extensive (i.e., towards the river) than within the upper zone. As of November 2010, the estimated areal extent of PCE in the upper zone with concentrations above 10 micrograms per liter ( $\mu$ g/L) is approximately 80 feet long and 100 feet wide, and the areal extent of PCE in the lower zone with concentrations above 100  $\mu$ g/L is approximately 150 feet long and 80 feet wide. During the November 2010 groundwater monitoring event, the maximum PCE concentrations detected in the upper zone and lower zone were 140  $\mu$ g/L and 300  $\mu$ g/L, respectively.

117800103W004.docx ES-1

The goal of this removal action is to reduce the PCE groundwater concentrations to the California maximum contaminant level (MCLs) included in the California Code of Regulations, Title 22. The removal action may be coupled with other methods (e.g., monitored natural attenuation) for non-source areas that are not cost effective to treat. It is recognized that ongoing groundwater monitoring will likely be required following the removal action.

Based on the removal action goal and the nature and extent of PCE-affected groundwater, the following three alternatives were developed for PCE-affected groundwater at the NPA of the site: (1) no action; (2) in-situ chemical oxidation (ISCO) using permanganate; and (3) in-situ bioremediation or enhanced reductive dechlorination using hydrogen release compound (HRC®). The three alternatives were analyzed individually (without comparison to the other alternatives) and comparatively, with respect to effectiveness, implementability and cost criteria. Based on the removal action alternative analysis, Alternative 2, ISCO using permanganate, is the recommended removal action alternative. This recommendation is based on: (1) the observed effectiveness to date of the ISCO pilot study, which has successfully reduced PCE concentrations in groundwater where permanganate has been observed; (2) the demonstrated longevity of permanganate (five months through February 2011); (3) the fact that the permanganate solution injection into the upper zone appears to have penetrated the fine-grained unit into the lower zone; and (4) the limited adverse effects (limited mobilization of hexavalent chromium).

Implementation of the recommended removal action will utilize an approximately 3 percent by weight sodium permanganate solution. Prior to implementation, coverage under the Central Valley Regional Water Quality Control Board (RWQCB) General Order No. R5-2008-0149, Waste Discharge Requirements, General Order for In-Situ Groundwater Remediation at Sites with Volatile Organic Compounds, Nitrogen Compounds, Perchlorate, Pesticides, Semi-Volatile Compounds, Hexavalent Chromium and/or Petroleum Hydrocarbons (General Order) will be obtained, four additional lower zone groundwater monitoring wells will be installed, baseline groundwater monitoring will be conducted, and laboratory amendment analysis will be performed. The upper zone treatment area targets PCE groundwater concentrations that exceed 50  $\mu$ g/L, and the lower zone treatment area targets PCE groundwater concentrations that exceed 100 µg/L. Distribution of permanganate throughout the upper and lower zone treatment areas will be completed in phases, with the initial phase of injection in the upper zone. Grab groundwater sampling will be performed following the initial injection to assess the lateral distribution of the permanganate solution in the upper zone and to confirm that the permanganate solution has penetrated the fine-gained unit. Following the initial injection and grab groundwater sampling, additional permanganate solution may be injected into the upper zone and/or lower zone, followed by additional grab groundwater sampling to confirm the desired permanganate distribution. Once the permanganate reaches the lower zone, permanganate transport will be controlled by the natural groundwater flow. A post-injection groundwater monitoring program will be implemented to monitor the permanganate treatment performance.

117800103W004.docx ES-2

A Notice of Intent (NOI) application was submitted to the RWQCB on May 6, 2011. The California Department of Toxic Substances Control (DTSC) approval of this RAW and DTSC CEQA determination is required prior to the RWQCB approval of the NOI. The draft RAW and proposed NOE were made available for public review and comment during the period September 23 through October 24, 2011. No verbal or written comments were received during the public comment period. DTSC has prepared a responsiveness summary describing the process and outcome of the public participation. Having received DTSC approval, the RWQCB is expected to issue coverage under the General Order within 30 days. The actual permanganate injection activities will be initiated within 45 days following RWQCB issuance of coverage under the General Order, after completion of the amendment analyses, and subject to driller availability.

117800103W004.docx ES-3

#### 1.0 INTRODUCTION

This Removal Action Work Plan (RAW) has been prepared by PES Environmental, Inc. (PES) on behalf of Forestar (USA) Real Estate Group, Inc. (Forestar) for the former Gaylord Container Corporation Facility, East Mill, in Antioch, California (Plates 1 and 2). Groundwater at the Non-Processing Area (NPA) of the East Mill (site) has been affected with tetrachloroethylene (PCE). The NPA is one of eight areas of interest (AOIs)<sup>1</sup> identified on the East Mill facility during previous remedial investigations. Site work is being conducted in accordance with the Voluntary Environmental Oversight Agreement entered into by and between Gaylord Container Corporation, d/b/a Inland Paperboard and Packaging, Inc. (Gaylord) and the California Department of Toxic Substances Control (DTSC) dated December 30, 2003 (Docket # HAS-A 03/04-084), and amended on August 14, 2008 to reflect Forestar's acquisition of the property in late 2007.

This RAW has been prepared in accordance with DTSC's 1998 guidance memorandum<sup>2</sup>. This guidance states that a RAW "is prepared when a non-emergency removal action or a remedial action is proposed at a hazardous substance release site which is projected to cost less than \$1,000,000." In 2008, the cost threshold for when a RAW could be prepared (rather than a remedial action plan) was increased from \$1,000,000 to \$2,000,000<sup>3</sup>. The remainder of this RAW is organized in accordance with the required content of a RAW (as discussed in the referenced DTSC memorandum) and includes the following information:

- Section 2 presents a description of the site, ownership and operational history, and on-site conditions, including a brief description of prior site characterization activities, the nature and extent of the PCE-affected groundwater, and pilot study results;
- Section 3 discusses the removal action goals and Applicable or Relevant and Appropriate Requirements (ARARs);
- Section 4 presents alternative removal measures that were considered in selecting the proposed removal action and a basis for selecting the preferred remedy, with each alternative evaluated with respect to effectiveness, implementability, and cost;
- Section 5 describes the planned work tasks associated with implementation of the proposed remedy:
- Section 6 provides a schedule for implementing this RAW; and
- Section 7 discusses California Environmental Quality Act (CEQA) and public notice requirements.

1

<sup>&</sup>lt;sup>1</sup> The AOIs were designated in past remedial investigations based on past operational function in order to focus and simplify investigation and remedial planning activities.

<sup>&</sup>lt;sup>2</sup> DTSC, 1998. Memorandum, Removal Action Workplans (RAWs). September 23.

<sup>&</sup>lt;sup>3</sup> CA Assembly Bill No. 2729, Chapter 644, 2008. September 30.

### 2.0 SITE BACKGROUND

A description of the site location, site history (including former operations, on-site conditions, and prior owners), geologic and hydrogeologic conditions, prior site characterizations, the nature and extent of the PCE plume, and pilot study results are presented below.

## 2.1 Site Location

The East Mill (Assessor's Parcel Number 051-031-005) is located at 2603 Wilbur Avenue in Antioch, California, approximately 1.25 miles west of the Highway 160 Bridge (Plate 1). The site covers approximately 80 acres and is bounded on the north by the San Joaquin River, on the east by the Mirant California electricity power plant, on the south by Wilbur Avenue, and on the west by the Former Gaylord Container Corporation West Mill. The NPA is located in the west portion of the East Mill (Plate 2), between the West Mill and the Main Mill Process Area.

The ground surface elevation ranges from approximately 10 to 48 feet above mean sea level<sup>4</sup>. The land surface is relatively flat over the majority of the East Mill, except in the northern portion of the site (i.e., along the San Joaquin River), where it slopes steeply downward to a narrow tidal freshwater/brackish marsh.

The site is zoned for heavy industrial (H-I) use and is located in a mixed-use area including agriculture, commercial, residential, and industrial properties.

## 2.2 Site History

Between 1947 and 1991, the site operated as a paperboard/linerboard manufacturing facility utilizing the Kraft process to convert wood chips into pulp for the manufacturing of virgin fiber linerboard. Other activities on the East Mill were in support of the pulping operation and the paper machine operations. The buildings and structures within the NPA were formerly used for: (1) finishing of paper products; (2) packing, shipping, and transfer of paper products offsite; and (3) administrative/maintenance functions<sup>5</sup>. Buildings within the NPA included: a paper machine building, a paint shop, a jute plant, machine/automotive/carpentry shops, the additive building, an oxygen distribution building, and a carton plant building (see Plate 2).

The site was originally owned and operated by Fiberboard Corporation and was acquired by Louisiana Pacific Corporation in 1976. Louisiana Pacific Corporation operated the site through March 1988, when Gaylord purchased the facility. Gaylord continued to operate the facility until operations were permanently shut down in 1991. Temple-Inland Inc. (TI) acquired Gaylord and its assets, including the site, in April 2002. In December 2007,

<sup>&</sup>lt;sup>4</sup> Tele Atlas, 2009. Online Google Earth map for site location.

<sup>&</sup>lt;sup>5</sup> Blasland, Bouck & Lee, Inc. (BBL), 2006. Draft Remedial Investigation Report for the East Mill, Gaylord Container Corporation, Antioch, California. April.

TI deeded the East Mill to Forestar, which was spun off of TI as an independent, publicly-traded company.

Most of the aboveground structures were demolished in the mid- to late 1990s. The remaining aboveground structures were demolished in 2004 and 2005 by Blasland, Bouck & Lee, Inc. (BBL), now known as ARCADIS, under DTSC oversight<sup>6</sup>. Underground pipelines associated with the former paper and pulp facility were inspected, cleaned where possible and abandoned in place, or removed if their condition precluded cleaning<sup>6</sup>. Concrete foundations and footings associated with former structures remain in some areas of the site. Demolition of below-ground features on the East Mill occurred from 2005 to 2008 with the removal or cleaning of pipelines, underground tanks, and other subsurface features<sup>7</sup>.

## 2.3 Climate and Geologic Conditions

The Antioch area has a modified Mediterranean climate with hot dry summers and moist, mild winters. Rainfall averages 12.5 inches annually, falling mainly from November through April. Typically, the months of May through September are dry. The average annual temperature is 61.8°F with an average annual maximum temperature of 74°F. Average high temperatures in the area range from above 90°F in July, August, and September to the mid 30s°F in December and January. Summer winds flow from the river from the west or northwest at an average of 10 to 20 miles per hour<sup>8</sup>.

The site lies at the approximate boundary between two Californian geomorphic provinces, the Coast Range and the Great Valley. The site is in an area consisting primarily of Quaternary (late Pleistocene) aeolian (wind-blown) sand dune deposits, which may be overlain by fine grained silts and peaty mud along the San Joaquin River margin; the similarity of the fluvial and aeolian deposits make them difficult to differentiate. During the late Pleistocene period, melt waters from receding glaciers in the Sierra Nevada deposited sand and silt onto the floodplains of the Central Valley rivers and drainages. Seasonal winds deposited the sands as dunes, producing the dune field of eastern Contra Costa County<sup>8</sup>.

The dune deposits typically are composed of poorly graded, fine-to-medium sand. The original thickness of the sand dunes is not clear, as erosion and systematic mining of the sand dunes for use in historical brick manufacturing has resulted in a reduction of estimated original dune heights of about 120 feet above the river level, to their current height of about 10 to 50 feet above the river level. Low-permeability hard pan (cemented) layers have been documented in the dune sands at the nearby Antioch Dunes National Wildlife Refuge<sup>8</sup>. The

<sup>&</sup>lt;sup>6</sup> ARCADIS, 2010. East Mill Aboveground Demolition Completion Report, Former Gaylord Container Corporation, East Mill, Antioch, California. March.

<sup>&</sup>lt;sup>7</sup> ARCADIS, 2010. Below Ground Demolition Completion Report, Former Gaylord Container Corporation, East Mill, Antioch, California. September.

<sup>&</sup>lt;sup>8</sup> U.S. Fish & Wildlife Service, 2001. *Antioch Dunes National Wildlife Refuge, Draft Comprehensive Conservation Plan.* September.

lateral continuity of the hard pan layers is unknown. The Antioch Dunes National Wildlife is located approximately 2,000 feet west of the site on the south bank of the San Joaquin River.

Quaternary (late Pleistocene to Holocene) alluvial fan and/or fluvial deposits consisting of sand, silt, or clay underlie or dissect the sand dune deposits below the ground surface. Migration of the San Joaquin River over time resulted in incision of the sand dune deposits and depositional/erosional sequences of fine grained deposits associated with oxbow lakes.<sup>8</sup>

According to information obtained at the nearby Dupont Oakley site (located approximately 1 miles east, on the south side of the San Joaquin river, east of the Highway 160 bridge and at approximately the same elevation as the East Mill facility), underlying the Quaternary alluvium is the Montezuma Formation, a poorly consolidated Pleistocene-aged marine silt with minor clay and sand<sup>9</sup>. The Montezuma Formation is found at depths of 120 to 130 feet below ground surface (bgs; the maximum depth explored) at the Dupont Oakley site.

## 2.4 Hydrogeologic Conditions

Groundwater is encountered at the site at depths ranging from approximately 8 feet bgs near the river, to approximately 28 feet bgs in the southern portion of the site. Based on approximately five years of quarterly monitoring data, groundwater flows to the north-northwest toward the San Joaquin River<sup>10</sup>. Groundwater levels reportedly fluctuate in response to tides and the level of the adjacent San Joaquin River, particularly for the wells closest to the river<sup>11</sup>.

### 2.5 Prior Site Characterizations

Several environmental investigations have been previously conducted to assess groundwater conditions on the site. On April 13, 2009, PES submitted a site investigation work plan (SIWP) to further evaluate potential PCE source area(s) and better define the extent of the PCE groundwater plume<sup>12</sup>. The SIWP provided a summary of previous investigations performed by others and is not reiterated in this RAW.

<sup>&</sup>lt;sup>9</sup> Dupont, 2008. Phase 2 Groundwater RFI Report for Dupont Oakley Site. December.

<sup>&</sup>lt;sup>10</sup> ARCADIS, 2008. July 2008 Groundwater Characterization, Former Gaylord Container Corporation East Mill, Forestar (USA) Real Estate Group Inc., Antioch, California. October 24.

<sup>&</sup>lt;sup>11</sup> ARCADIS, 2008. Hydraulic Testing Work Plan, Forestar (USA) Real Estate Group, Inc., Former Gaylord Container Corporation, East Mill, Antioch, California. March 26.

<sup>&</sup>lt;sup>12</sup> PES, 2009. Work Plan for Additional Investigation of PCE Groundwater Plume, East Mill, Former Gaylord Container Corporation Facility, Antioch, California. April 13.

Documentation of the work associated with the SIWP was transmitted to DTSC in a report<sup>13</sup> and a subsequent response to DTSC comments<sup>14</sup>. The work included an active soil vapor survey and a cone penetrometer testing (CPT)/membrane interface probe (MIP) investigation. The CPT/MIP investigation led to a revised understanding of the site hydrogeology. Two water-bearing zones are now documented at the site: the upper zone (from approximately 25 to 30 feet bgs); and the lower zone (from approximately 35 to 100 feet bgs). The water-bearing zones are separated by a predominantly fine-grained, low permeability unit (fine-grained unit) that ranges in thickness from approximately 3 feet (in the central and southern area of the NPA) to approximately 12 feet (near the San Joaquin River, which borders the northern site boundary). CPT/MIP locations are shown on Plate 3. Hydrogeologic cross sections which show the location of the fine-grained unit are provided as Plates 4 and 5.

Three groundwater monitoring wells and one injection well were abandoned and 25 new groundwater monitoring wells and two new injection wells installed at the site between August and November 2009. An additional eight monitoring wells were installed at the site to improve the understanding of the PCE groundwater plume between March 29 and April 2, 2010<sup>15</sup>. The locations of the wells are shown on Plate 6.

## 2.6 Nature and Extent of PCE Plume

PCE usage at the site was never documented. The 2009 investigation, which included a soil vapor survey and CPT/MIP groundwater investigation, was completed to: (1) further assess the vadose zone in the vicinity of suspected source area(s), (2) improve the understanding of the PCE distribution and site lithology, and (3) better delineate the lateral and vertical extent of PCE-affected groundwater.

The results of the 2009 soil vapor survey indicated that the most likely source of the PCE was in the vicinity of soil vapor sample location SV-10, located downgradient of the former auto shop building (see Plates 7 and 8). However, soil vapor concentrations were generally low, with a maximum PCE soil vapor concentration of 14 micrograms per liter ( $\mu$ g/L) at location EM-SV10, and did not conclusively identify a source. Elevated PCE soil vapor concentrations were identified approximately 80 feet upgradient (southeast) of the in-situ chemical oxidation (ISCO) pilot study injection wells (IW-1U and IW-1L).

Based on the distribution and extent of the PCE plumes in soil and groundwater, it is possible that multiple PCE sources were present within the NPA, as postulated by DTSC<sup>16</sup>. A likely release scenario is that PCE was released into the upper zone sands, and leaked through the

<sup>&</sup>lt;sup>13</sup> PES, 2009. Draft Summary of Additional Investigation of PCE Groundwater Plume, East Mill, Former Gaylord Container Corporation, Antioch, California. December 15.

<sup>&</sup>lt;sup>14</sup> PES, 2010. Response to Comments on PCE Investigation Report, Forestar (USA) Real Estate Group, Former Gaylord Container Corporation Facility, Antioch, California. June 30.

<sup>&</sup>lt;sup>15</sup> PES, 2010. Draft Second Quarter 2010 Groundwater Monitoring Report. August 27.

DTSC, 2010. Memorandum, Draft Summary of Additional Investigation of PCE Groundwater Plume, East Mill, Former Gaylord Container Corporation Facility, Antioch, California. Prepared by PES Environmental, Inc. Dated December 15, 2009. January 21.

fine-grained unit and distributed into the lower zone sands, similar to the recent distribution of permanganate noted during the ISCO pilot study. During the ISCO pilot study, the permanganate was introduced into the upper zone, but migrated downward into the lower zone (penetrating the fine-grained unit that separates the two sand zones). The fine-grained unit may also be thinner or absent in some locations of the NPA, despite its presence at all locations on the site assessed by PES.

In 2008, a large volume (50,000 gallons) of de-ionized (DI) water was injected into former injection well IW-1 during hydraulic testing at the site<sup>17</sup>. Based on subsequent groundwater monitoring results, the introduction of this water diluted the dissolved PCE plume. Well construction details are provided on Table 1. Historical PCE and degradation product groundwater monitoring results are provided on Table 2 for the NPA and area downgradient of the NPA at the site.

As previously discussed, the 2009 investigation identified a laterally extensive fine-grained unit (comprised of sandy silt to silty clay) at depths of 28 to 34 feet bgs. Qualitative readings (i.e., photo-ionization detector and the electron capture device on the MIP) collected during the 2009 investigation suggest the presence of higher concentrations of PCE within the fine-grained unit.

Based on its lithology, the fine-grained unit is expected to absorb/retain more PCE than either the upper or lower sand zones, as the sorption coefficient or soil to groundwater distribution coefficient (Kd) for volatile organic compounds (VOCs) is higher for silty or clayey soils than sands (as silts and clay contain more organic matter). Kd is calculated by multiplying the organic carbon partition coefficient, (Koc), of the chemical by the fraction of organic carbon (foc) of the soil<sup>18</sup>. An organic compound (such as PCE) dissolved in water will adsorb onto the naturally occurring organic carbon in the aquifer. When adsorption occurs, remediating the groundwater can be more difficult because some of the organic compound adheres to the soil and only slowly desorbs into the groundwater. Hence, soils with a higher organic carbon content (i.e., silts and clays), have a higher foc (and Kd), and retain more VOCs than those with a lower organic carbon content (i.e., sands). Back diffusion of VOCs absorbed onto the fine-grained unit into the groundwater with subsequent transport via preferential flow within the coarser-grained materials (i.e. the upper and lower zone sands) is expected to occur with time. This phenomenon, also known as matrix diffusion, is one of the reasons for the longevity of many VOC plumes<sup>19</sup>.

The November 2010 PCE isoconcentration contour maps for the upper zone and lower zone are provided as Plates 9 and 10, respectively. The PCE plume within the upper zone is limited in lateral extent (towards the river), and does not extend towards the river beyond well

117800103W004.docx 6

H - 380

<sup>&</sup>lt;sup>17</sup> ARCADIS, 2008. *Pilot Study Work Plan, Forestar (USA) Real Estate Group, Inc., Former Gaylord Container Corporation, East Mill, Antioch, California*. October 29.

<sup>&</sup>lt;sup>18</sup> EPA. http://www.epa.gov/athens/learn2model/part-two/onsite/ard onsite.html

<sup>&</sup>lt;sup>19</sup> EPA, 2009. Assessment and Delineation of DNAPL Source Zones at Hazardous Waste Sites. EPA/600/R-09/119. September.

MW-19A. Additionally, the upper zone PCE concentrations are relatively low (maximum of 140  $\mu$ g/L in well MW-21U in November 2010). For the rest of the upper zone wells, the PCE concentration measured in groundwater samples are less than 90  $\mu$ g/L. The estimated areal extent of the upper zone that contains PCE concentrations above 10  $\mu$ g/L is approximately 80 feet long and 100 feet wide (see Plate 9).

As shown on Plate 10, the PCE lower zone plume is more laterally extensive (towards the river) than the PCE upper zone plume. The PCE concentrations measured in groundwater samples from the lower zone wells are also higher than those in the upper zone, with the highest PCE groundwater concentrations identified in samples from wells MW-23L and MW-19B1. In November 2010, the PCE concentrations in groundwater samples from wells MW-23L and MW-19B1 were 180  $\mu$ g/L and 300  $\mu$ g/L, respectively. However, within the lower zone, the area of elevated PCE concentrations (i.e., concentrations above 100  $\mu$ g/L) is not laterally extensive, and encompasses an area of approximately 120 feet long and 80 feet wide.

## 2.7 ISCO Pilot Study

Pilot study injection activities were initiated on September 22, 2010 and completed on September 23, 2010<sup>20</sup>. Approximately 2,319 gallons of 2 to 3 percent by weight (%) sodium permanganate solution was injected in three batches using a drop-pipe into upper zone injection well IW-1U (see Plate 11). The injection was completed using gravity flow into the subsurface.

On September 27, 2010, four days after injection activities were completed, purple colored groundwater, indicative of the presence of permanganate, was first observed in lower zone well IW-1L located approximately 5 feet east of the upper zone well IW-1U (which was utilized for injection). The permanganate solution appeared to have penetrated (leaked through) the fine-grained, low-permeability unit that separates the upper and lower zones.

On October 22, 2010, pink or light purple colored groundwater was observed in samples from well MW-24L (located approximately 10 feet downgradient of well IW-1L), indicating the further migration of permanganate from well IW-1L to well MW-24L. On December 20, 2010, purple colored groundwater was also observed in samples from well MW-22L (located approximately 20 feet downgradient of well IW-1L), indicating the continued transport of permanganate in the lower zone. On February 25, 2011, purple colored groundwater was observed in samples from well MW-23L (located approximately 40 feet downgradient of well IW-1L). Based on measurements to date, the permanganate in lower zone groundwater is traveling at a rate of approximately 0.25 to 0.50 feet per day (approximately 90 to 180 feet per year).

PES, 2011. 2010 Annual Report, In-Situ Chemical Oxidation (ISCO) Pilot Study, East Mill, Former Gaylord Container Corporation Facility, Antioch, California. January 31.

Groundwater monitoring results indicate non-detectable or low (less than 5  $\mu$ g/L) concentrations of PCE in wells where the permanganate has been visually observed. Hexavalent chromium has been detected in groundwater samples from wells where permanganate is visually observed (i.e., purple colored groundwater). However, the laboratory (Curtis & Tompkins Analytical Laboratory of Berkeley, California) advised in January 2011 that the hexavalent chromium results for samples that contain visible permanganate are likely biased low, as the method is colorometric and the purple permanganate color interferes with quantification. The laboratory explanation is included in Appendix A.

Based on the August 2010 baseline monitoring results, background hexavalent chromium concentrations range from less than  $0.5~\mu g/L$  to  $14~\mu g/L$  (see Table 2). Higher hexavalent chromium concentrations (and higher total chromium and total dissolved chromium concentrations) have only been identified in those wells where permanganate has visibly been detected. Hexavalent chromium is expected to revert back to trivalent chromium when the permanganate dissipates and non-oxidative groundwater conditions return. The maximum hexavalent chromium concentration detected in the lower zone to date is 390  $\mu g/L$  in well MW-24L in December 2010 (where the darkest purple color has been observed). To date, hexavalent chromium has not been detected above background concentrations in wells located outside of the treatment area.

No indication of the distribution of permanganate solution in the upper zone, beyond the injection well (IW-1U), has been noted to date. Permanganate has persisted in injection well IW-1U, but the February 25, 2011 samples from well IW-1U are visibly less purple. Based on the monitoring results from the pilot study, the lower zone has been influenced by the permanganate injection in the upper zone, and continued transport of the permanganate beyond well MW-23L is expected with time.

The quantity of a chemical oxidant (i.e., permanganate) that reacts with the natural organic matter (NOM) in soil is known as the soil oxidant demand (SOD). The SOD provides an indication of the degree to which NOM in the soil matrix will compete with the target contaminants for the chemical oxidant. At most sites, the SOD greatly exceeds the oxidant demand for contaminant destruction (which is calculated based on stoichiometric requirements) and the oxidant does not persist long in the subsurface as it is depleted via reaction with the NOM. The SOD recommended for preliminary evaluation of permanganate requirements ranges from 5 to 20 grams of permanganate per kilogram of dry soil (g/kg)<sup>21</sup>. During installation of lower zone monitoring well MW-28L2 at the site in November 2009, three soil samples were collected from the upper and lower sand zones for permanganate SOD testing<sup>22</sup>. The permanganate SOD testing results indicated an average SOD of 0.3 g/kg, with SOD results ranging from 0.1 g/kg to 0.5 g/kg. These SOD results are low, when compared to those typically found at other sites, and are reflective of the clean subsurface sand zones

<sup>&</sup>lt;sup>21</sup> Sutherson, S. and Payne, F. 2004. *In Situ Remediation Engineering*. March 15.

PES, 2010. Addendum to In-Situ Chemical Oxidation, Pilot Study Work Plan, Former Gaylord Container Corporation Facility, Antioch, California. January 27.

identified at the site. The long-term persistence (greater than five months as of February 2011) of permanganate observed during the current ISCO pilot study supports the laboratory finding of a low SOD. This finding is advantageous for ISCO applications because the quantity of permanganate needed for the SOD is small, resulting in a cost-effective permanganate treatment targeting PCE. Additionally, the long-term persistence of permanganate should provide a longer contact time between permanganate and PCE in groundwater, as well as PCE sorbed to the fine-grained unit. This should result in greater mass removal, lower matrix diffusion effects (i.e., the rebound in PCE concentrations associated with the back-diffusion of PCE sorbed onto soil) and reduce plume longevity.

To further assess the lateral distribution of permanganate in both the upper and lower zones, grab groundwater sampling will be completed during the first half of 2011. Grab groundwater samples will be collected from the upper zone between injection well IW-1U and well MW-24U and injection wells IW-1U and IW-1L to assess the width of distribution in the upper zone. Grab groundwater samples will be collected from the lower zone at distances of 5 feet, 7 feet, 10 feet and 15 feet from well MW-22L to assess the width of the permanganate distribution in the lower zone. The February 25, 2011 groundwater samples indicated that the permanganate was most concentrated (as evidenced by the darkest purple color) in samples from well MW-22L. The grab groundwater samples will be visually inspected to evaluate the lateral extent of permanganate distribution. Prior to conducting the grab groundwater sampling, groundwater samples from wells IW-1U and MW-22L will be visually inspected to confirm that permanganate remains in these wells (as evidenced by purple colored groundwater).

## 3.0 REMOVAL ACTION GOALS

The removal action goals and ARARs are discussed below. ARARs are required for the remedial screening analysis presented in Section 4.0.

## 3.1 Removal Action Goals

The DTSC is the lead agency and requires that the clean-up goal be the California Maximum Contaminant Levels (MCLs). For PCE, the MCL is 5  $\mu$ g/L. The Central Valley Regional Water Quality Control Board (RWQCB) Basin Plan<sup>23</sup> also establishes water quality objectives (WQOs) for groundwater at the site. Additionally, State Water Board Resolution 92-49<sup>24</sup> establishes that the RWQCB require cleanup of groundwater to promote attainment of either background water quality, or if background levels of water quality cannot be restored, the best water quality which is reasonable and complies with the Basin Plan, including applicable

<sup>&</sup>lt;sup>23</sup> RWQCB, 1998. The Water Quality Control Plan, Fourth Edition, for the Sacramento and San Joaquin River Basins, Fourth Edition. September 1.

State Water Resources Control Board. 1996. Resolution No. 92-49, Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304. October 2.

WQOs. The RWQCB General Order No. R5-2008-0149 (General Order)<sup>25</sup> implements those numerical WQOs. For PCE, the numerical WQO is  $0.06 \mu g/L$ , based on the California Public Health Goal<sup>25</sup>.

Other clean-up goals are potentially applicable, because other constituents have been identified in groundwater samples from within the NPA. These constituents and their respective clean-up goals include:

- Trichloroethylene (TCE), a degradation product of PCE:  $5.0 \mu g/L$ , based on the California MCL;
- Cis-1,2-dichloroethylene (cis-1,2-DCE), a degradation product of PCE and TCE:  $6 \mu g/L$ , based on the California MCL<sup>25</sup>;
- Hexavalent chromium, which may be formed during ISCO:  $2 \mu g/L$ , based on the Draft California Public Health Goal<sup>25</sup>;
- Sodium, which may increase with the injection of sodium permanganate:  $20,000 \mu g/L$ , based on the United States Environmental Protection Agency (EPA) Health Advisory<sup>25</sup>; and
- Manganese, which may increase with the injection of sodium permanganate:  $50 \mu g/L$ , based on the California Secondary MCL<sup>25</sup>.

The RWQCB's Basin Plan also includes WQOs for inland surface water (i.e., the San Joaquin river basin)<sup>26</sup>. The WQOs for inland surface water for constituents identified in groundwater samples from within the NPA include:  $50 \mu g/L$  for manganese, water free from discoloration that causes nuisance or adversely affects beneficial uses, a pH greater than or equal to 6.5 and less than or equal to 8.5, and the requirement that surface water be maintained free of toxic substances in concentrations that product detrimental physiological responses in human, plant, animal, or aquatic life.

As the primary constituent of concern is PCE, the removal action goal is to reduce PCE groundwater concentrations to the MCL, within a reasonable time period. The removal action may be coupled with other methods (e.g., monitored natural attenuation) for non-source areas that are not cost effective to treat. As active remediation has practical limitations with respect to the ability to reduce PCE groundwater concentrations to low levels (i.e., the MCL), in part due to the previously referenced matrix diffusion effects, it is recognized that ongoing groundwater monitoring will likely be required after a period of active remediation.

117800103W004.docx 10

H - 384

<sup>&</sup>lt;sup>25</sup> RWQCB, 2008. General Order No. R5-2008-0149. Waste Discharge Requirements, General Order for In-Situ Groundwater Remediation at Sites with Volatile Organic Compounds, Nitrogen Compounds, Perchlorate, Pesticides, Semi-Volatile Compounds, Hexavalent Chromium and/or Petroleum Hydrocarbons. September 11.

<sup>&</sup>lt;sup>26</sup> RWQCB, 1998. Fourth Edition of the Water Quality Control Plan (Basin Plan) for the Sacramento River and San Joauin River Basins. September 15.

# 3.2 Applicable or Relevant and Appropriate Requirements (ARARs)

The EPA National Oil and Hazardous Substances Pollution Contingency Plan (NCP) requires that the selected remedial action comply with ARARs<sup>27, 28</sup>. The NCP defines applicable requirements as a promulgated federal or state standard that specifically addresses a hazardous constituent, remedial action, location, or other circumstance. The NCP defines a relevant and appropriate requirement as a promulgated federal or state requirement that addresses problems or situations sufficiently similar to those encountered, even though the requirement is not legally applicable.

A requirement may be relevant but not appropriate, given site-specific circumstances; such a requirement would not be an ARAR. If only part of a requirement is relevant and appropriate, then only that portion needs to be addressed. ARARs are categorized as chemical-, action-, or location-specific. Chemical-specific ARARs are typically health- or risk-based values that establish the acceptable amount or concentration of a chemical that may be found in, or discharged to, the ambient environment, such as federal or state drinking water standards for specific chemicals. Action-specific requirements generally set performance, design, or other similar action specific controls related to the management of hazardous substances. An example of an action-specific ARAR is the National Pollutant Discharge Elimination System requirements, which regulate the discharge of pollutants to surface water. Location specific requirements address restrictions on the nature of activities or the concentrations of hazardous substances solely because they occur in a particular location. Examples of location-specific ARARs include possible requirements associated with remedial activities in areas designated as wetlands, flood plains, or historic sites.

In addition to ARARs, which are regulatory requirements, non-promulgated advisories or guidance, referred to as "to be considered" (TBC) criteria, have also been identified. TBCs are non-binding criteria, advisories, guidance, and proposed standards that might provide useful information or recommended procedures for developing standards that protect human health and the environment.

ARARs and TBCs have been compiled for this RAW using federal, state, and local statutes, regulations, and guidance and are listed in Table 3.

117800103W004.docx 11

H - 385

-

<sup>&</sup>lt;sup>27</sup> EPA, 1990. National Oil and Hazardous Substances Contingency Plan (NCP). 40 Code of Federal Regulations, Part 300. March.

<sup>&</sup>lt;sup>28</sup> EPA, 2003. National Oil and Hazardous Substances Contingency Plan (NCP). 40 Code of Federal Regulations, Part 300, Subpart E, 300.430, Remedial Investigation/Feasibility Study and Selection of Remedy. July 1.

#### 4.0 REMOVAL ACTION ALTERNATIVE EVALUATION AND SELECTION

This section discusses the identification and analysis of removal action alternatives considered for the PCE-affected groundwater at the NPA of the site; and recommends a removal action alternative based on a comparative analysis of alternatives using effectiveness, implementability and cost criteria.

## 4.1 Identification and Description of Removal Action Alternatives

Based on the removal action goal(s) and the nature and extent of PCE-affected groundwater, the following three alternatives were developed for PCE-affected groundwater at the NPA of the site:

- Alternative 1: No action;
- Alternative 2: ISCO using permanganate; and
- Alternative 3: In-situ bioremediation treatment using hydrogen release compound (HRC®).

The groundwater remedial alternatives are described in more detail in the following subsections.

### **4.1.1** Alternative 1 - No Action

Under the "no action" alternative, the site would be left in its current state. This alternative includes no institutional controls, no treatment of groundwater, and no groundwater monitoring. The "no action" alternative would not have the ability to meet the objective of the removal action; it is included to provide a baseline for comparison to the other removal action alternatives.

### 4.1.2 Alternative 2 – In-Situ Chemical Oxidation (ISCO) using Permanganate

Under this alternative, PCE-affected groundwater in the upper and lower aquifer zones will be treated by ISCO using permanganate. This alternative was selected as ISCO has been successfully tested at the site during the pilot study. ISCO treatment requires contact between the oxidant (in this case permanganate) and PCE, and can result in complete mass removal in a relatively short period of time. However, the area treated can be re-impacted either through matrix diffusion effects or flow of PCE-affected groundwater from an upgradient area. The byproducts of ISCO treatment of PCE using permanganate include: water, carbon dioxide, chloride, and manganese dioxide. During treatment, the oxidative/reductive state of the aquifer becomes more oxidative, which can cause the mobilization of metals by increasing their valence state (e.g., trivalent chromium can transform to the more toxic hexavalent chromium under oxidative conditions).

Sodium permanganate would be utilized for this alternative and blended with DI water to an injection concentration of approximately 3%. Sodium permanganate was selected rather than potassium permanganate because U.S. Department of Homeland Security Chemical Facility Anti-Terrorism Standards are applicable for storage of potassium permanganate (over 400 pounds), but not sodium permanganate. The permanganate solution would be delivered to the site, stored temporarily, and injected into the subsurface using appropriate pumps and direct-push drilling equipment. A groundwater monitoring program would be implemented to monitor treatment effectiveness. Additional groundwater monitoring wells would be installed to assist in assessing ISCO effectiveness and for performance monitoring.

The treatment strategy for this alternative is based on the ISCO pilot study results (see Section 2.7). These results indicate complete removal of PCE where permanganate was distributed and visually observed as purple-colored groundwater. During the pilot study, permanganate injected into the upper zone migrated through the fine-grained unit into the lower zone. Once in the lower zone, the permanganate traveled with groundwater and, to date, has been detected at least 40 feet away from well IW-1L (the injection occurred into upper zone well IW-1U, but migrated downward and was first detected in well IW-1L located 5 feet east of well IW-1U).

The long-term persistence (greater than five months as of February 2011) of permanganate observed during the current ISCO pilot study supports the laboratory finding of a low SOD. This finding is advantageous for ISCO application because a low SOD requires less permanganate, resulting in more cost-effective permanganate treatment targeting PCE (rather than permanganate reacting with NOM). Additionally, the long-term persistence of permanganate should provide a longer contact time between permanganate and PCE in groundwater, as well as PCE sorbed to the fine-grained unit. This should result in greater mass removal, lower matrix diffusion effects, and reduce PCE plume longevity.

For evaluation of this alternative, it is assumed that following treatment, groundwater monitoring would continue for up to 10 years to monitor plume stability after active remediation has ceased. The actual monitoring period may be longer or shorter than 10 years, and will continue until regulatory approval for no further monitoring is obtained. Modifications to the monitoring program (reductions in wells monitored and/or frequency of monitoring) may also occur in the future; such modifications will only be implemented with appropriate regulatory approval.

Groundwater monitoring would continue after treatment to monitor the additional attenuation expected via natural degradation processes. Treatment of the entire dissolved plume would not be cost effective, and hence the treatment area will be limited to areas of elevated PCE groundwater concentrations (i.e., greater than  $50 \mu g/L$  in the upper zone and greater than  $100 \mu g/L$  in the lower zone). The permanganate treatment will be conducted in a manner to avoid the potential for release of permanganate into the San Joaquin River located downgradient of the site (i.e., permanganate will not be used in close proximity to the river).

### **4.1.3** Alternative 3 – In-Situ Bioremediation

Under this alternative, PCE-affected groundwater in the upper and lower aquifer zones will be treated by in-situ bioremediation or enhanced reductive dechlorination (ERD) using HRC®. ERD is utilized to enhance or accelerate the reductive dechlorination of VOCs. Under reductive (anaerobic or absence of oxygen) conditions, VOCs degrade to less chlorinated degradation products. However, the area treated can be re-impacted either through matrix diffusion effects or flow of PCE-affected groundwater from an upgradient area. The end products of ERD treatment of PCE include ethene and/or ethane gas. The potential exists for the reductive dechlorination process to stall before reaching completion, which can cause the accumulation of cis-1,2-DCE and/or vinyl chloride (vinyl chloride is more toxic than PCE).

ERD is accomplished by introduction of an organic substrate (electron donor) into the subsurface for the purpose of stimulating microbial growth, creating an anaerobic (oxygen deficient) groundwater treatment zone (reductive zone), and generating hydrogen through fermentation reactions<sup>29</sup>. During the reductive dechlorination reactions, the VOCs act as electron acceptors. Other competing electron acceptors must first be depleted in order for the VOCs to be utilized (degraded). The most easily depleted electron acceptor is oxygen, followed by nitrate, manganese (IV), ferric iron (III), and then sulfate. When sulfate-reducing conditions are achieved, VOCs are also degraded.

During reductive dechlorination of VOCs, PCE degrades to TCE, TCE degrades to cis-1,2-DCE, cis-1,2-DCE degrades to vinyl chloride, and vinyl chloride degrades to ethane/ethene gas. Each subsequent degradation step is slower, with vinyl chloride taking the longest to degrade. Bio-augmentation is commonly utilized with ERD to minimize a potential stall (or accumulation) of cis-1,2-DCE or vinyl chloride, particularly: (1) if the appropriate strain of bacterial microbes is not present in site groundwater; (2) if more robust bacterial microbes are available; or (3) to reduce the lag-time associated with the initiation of the degradation reactions. The sequential degradation reactions take time to proceed to completion (a period of at least two to five years) and in-situ bioremediation is thus, "slower" than ISCO. The ability of ERD to reach low groundwater concentrations (i.e., MCLs) has been demonstrated at some sites, but cannot be assumed to be possible at every site<sup>29</sup>.

There are many ways to implement ERD. Techniques vary based on the type of organic substrate utilized and method of organic substrate delivery; the preferred organic substrate and delivery method utilized varies from site to site and is regularly debated between remediation practitioners. Organic substrates widely used for ERD include fast release (shorter-life) materials such as sodium lactate, molasses and corn syrup, as well as longer lasting materials such as HRC® and emulsified vegetable oil.

117800103W004.docx 14

H - 388

<sup>&</sup>lt;sup>29</sup> Air Force Center for Environmental Excellence (AFCEE), 2004. *Principles and Practices of Enhanced Anaerobic Bioremediation of Chlorinated Solvents*. August.

At other sites, PES has compared the cost of periodic injections using short-lived donors via injection wells to the cost of using longer-lasting donors with direct-push injection. In most cases, costs are similar, but overall project costs are usually lower for direct-push injection using a longer-lasting substrate. For short-lived donors, implementation costs include injection point/well construction, actual injection, periodic monitoring, and injection point/well abandonment at the conclusion of the project. Although the substrate costs are usually lower with injection via wells, implementation costs are higher (because more frequent injections are needed) and costs can increase due to the need to address biofouling at the injection well(s). For direct-push injection, substrate costs (for longer-lasting proprietary donors) are higher and initial injection costs are higher; however, fewer injection events are required and injection well construction/abandonment costs are avoided.

This evaluation of in-situ bioremediation is based on using HRC® because PES has successfully used HRC® at other sites, HRC® treatment does not require water flushing (potable water is not readily available at the site), and a direct-push approach (rather than using injection wells) is preferred. HRC® is a viscous, food-grade material, with a consistency similar to honey. HRC® is heated prior to injection to decrease its viscosity and to facilitate pumping. Once injected, it persists in the subsurface for at least one year, and has been documented to last up to three years. HRC® would be delivered to the site, stored, heated and injected into the subsurface using appropriate pumps and direct-push drilling equipment. Subsequent injection events may be needed, albeit likely in smaller areas than the initial injection area. A groundwater monitoring program would be implemented to monitor treatment effectiveness. Additional groundwater monitoring wells would be installed to assess effectiveness and for performance monitoring.

For evaluation of this alternative, it is assumed that following treatment, groundwater monitoring would continue for up to 10 years to monitor plume stability after active remediation has ceased. The actual monitoring period may be longer or shorter than 10 years, and will continue until regulatory approval for no further monitoring is obtained. Modifications to the monitoring program (reductions in wells monitored and/or frequency of monitoring) may also occur in the future; such modifications will only be implemented with appropriate regulatory approval.

Groundwater monitoring would continue to monitor the additional attenuation expected via natural degradation processes. Treatment of the entire dissolved plume would not be cost effective, and hence the treatment area will be focused on areas of elevated PCE groundwater concentrations (i.e., above  $50~\mu g/L$  in the upper zone and above  $100~\mu g/L$  in the lower zone).

## 4.2 Alternative Evaluation Criteria

The identified removal action alternatives are evaluated against three broad criteria: effectiveness, implementability and cost, as described in the 1993 EPA guidance (EPA Guidance)<sup>30</sup>.

117800103W004.docx 15

H - 389

-

<sup>&</sup>lt;sup>30</sup> EPA, 1993. Guidance on Conducting Non-Time-Critical Removal Actions Under CERCLA. August.

### 4.2.1 Effectiveness

The effectiveness of an alternative refers to its ability to meet the objective within the scope of the removal action. EPA Guidance requires that effectiveness be evaluated in terms of:

- (1) overall protection of human health and the environment; (2) compliance with ARARs;
- (3) long-term effectiveness and permanence; (4) reduction of toxicity, mobility, or volume through treatment; and (5) short-term effectiveness.

## 4.2.2 Implementability

EPA Guidance requires the implementability evaluation of an alternative to consider: (1) the technical feasibility of the alternative; (2) the administrative feasibility; (3) the availability of necessary services and materials to support the alternative; and (4) State and community acceptance. Implementability includes the ability to: design and perform a removal alternative, obtain services and equipment, monitor the performance and effectiveness of technologies, obtain necessary permits and approvals from agencies, and obtain acceptance by the State and the community.

### 4.2.3 Cost

EPA Guidance requires the cost of an alternative be evaluated based on capital costs, costs for post-removal site control (PRSC), and present worth cost. The PRSC costs include: operation and maintenance, auxiliary materials and energy, disposal of residuals, groundwater monitoring, and support costs. The actual costs will depend on true labor and material cost, competitive market conditions, final project scope and the implementation schedule. The cost evaluations are considered to be accurate to plus 50% and minus 30%.

## 4.3 Analysis of Removal Action Alternatives

This section presents an individual analysis of the alternatives identified in Section 4.1 without consideration of the other alternatives. Each alternative is evaluated with respect to effectiveness, implementability, and cost.

#### **4.3.1** Alternative 1 – No Action

Under the "no action" alternative, the site would be left in its current state. The impacts due to the presence of PCE in groundwater would not be addressed and there would be no immediate reduction in the potential risks. Due to the fact that no implementation activities are required as part of this alternative, there would be no short-term risks to site workers or the community during implementation. No costs would be incurred for implementing this alternative. The "no action" alternative would not have the ability to meet the goal of the removal action; therefore it does not meet the effectiveness criteria and State and community acceptance would likely be unobtainable.

## 4.3.2 Alternative 2 - In-Situ Chemical Oxidation (ISCO) using Permanganate

This section evaluates Alternative 2, ISCO using permanganate against the effectiveness, implementability, and cost criteria.

### 4.3.2.1 Effectiveness

ISCO using permanganate has the ability to achieve PCE mass reduction in a relatively short time period. Initial results from the ISCO pilot study, which began implementation in September 2010, has shown PCE in groundwater effectively reduced to non-detectable or low (less than 5  $\mu$ g/L) concentrations, with no generation of degradation products, where permanganate has been visually observed as purple colored groundwater.

ISCO treatment reduces PCE mass by transforming PCE into less toxic end products (water, carbon dioxide, chloride and manganese dioxide). This alternative would therefore increase the protection of human health and the environment by reducing risks associated with the presence of PCE in groundwater. ISCO treatment could potentially cause the transformation of trivalent chromium to the more toxic hexavalent chromium, creating an increased risk due to the presence of hexavalent chromium and decreased protection of human health and the environment. However, initial groundwater monitoring results from the pilot study have shown increased hexavalent chromium concentrations are likely temporary, and revert back to trivalent chromium when the permanganate dissipates.

There is also some uncertainty associated with the hexavalent chromium analysis as colored (purple) groundwater interferes with the colorimetric method used for hexavalent chromium analysis. Carus Chemicals, Inc. (Carus) a permanganate manufacturer has developed a method for hexavalent chromium analysis when purple color is present. The laboratory will be advised to use the Carus method for hexavalent chromium, which is included as Appendix B.

To date, the permanganate has not dissipated appreciably, but quarterly monitoring will continue to be conducted in accordance with the Monitoring and Reporting Program (MRP) for the pilot study until the permanganate dissipates. In February 2011, only a faint pink color was observed in the sample from well IW-1L, and a lighter purple color (than previous samples) was observed in the sample from injection well IW-1U.

This alternative would provide long-term and permanent reduction of PCE mass through chemical oxidation, although there is the potential for rebound following treatment due to matrix diffusion (i.e., back diffusion of PCE sorbed to the fine-grained unit into the groundwater). If the permanganate injected into the upper zone migrates through the fine-grained unit into the lower zone, as observed during the ISCO pilot study, then matrix diffusion effects and the potential for a rebound in groundwater concentrations could potentially be reduced. This could effectively reduce plume longevity. Additionally, during the ISCO pilot study, permanganate has demonstrated longevity (more than 150 days),

confirming that SOD is low and reagent competition from NOM is low. ISCO treatment would permanently reduce the toxicity, mobility, and mass of PCE without the potential for formation of toxic degradation products (i.e., vinyl chloride).

Permanganate is a strong oxidizer and could pose potential short-term risks to the community during transportation to the site should an accidental release occur. However, permanganate would likely be blended with DI water to a low concentration (3%) prior to delivery to the site, and would be transported using appropriately licensed vehicles. The area on-site where this alternative would be implemented is more than 700 feet away from the nearest public street. Potential short-term risks to site workers may include exposure to permanganate during storage and handling activities associated with implementation. Site workers may also be exposed to fugitive dusts, hazardous soils, or groundwater encountered during well installation and direct-push injection activities. Risks to site workers could be mitigated using personal protective equipment and engineering controls.

## 4.3.2.2 Implementability

Permanganate injection is a well-proven, generally accepted, readily implementable technology that is a common method for treating PCE-affected groundwater. This alternative is technically simple to implement with proven results.

However, as this technology is based on in-situ treatment, there may be some distribution limitations. There are minor lithologic variations in the lower sand zone with lenses of coarse-grained sands that provide preferential flow paths for groundwater. As previously discussed, fine-grained materials (present primarily in the fine-grained unit) provide sorption sites for PCE. These subsurface heterogeneities and associated preferential pathways via the coarse-grained lenses, can inhibit distribution of amendments associated with in-situ technologies. This limitation is an inherent issue with available in-situ remedial technologies that rely on injection and distribution of amendments in the subsurface<sup>31</sup>. As this site exhibits more homogeneity in subsurface soils than many other sites where in-situ technologies have been applied with success (but not necessarily resulting in groundwater concentrations such as MCLs), in-situ treatment results are anticipated to be successful, but it is not known whether the removal action goals can be achieved. A more likely scenario is that an active remediation period (i.e., ISCO treatment) will be followed by a period of groundwater monitoring (albeit on a reduced schedule) to assess generally decreasing residual groundwater concentrations above the removal action goals.

Standard direct-push injection and material handling methods would be used for injection. Contractors are readily available and have the necessary equipment and specialists necessary to handle and perform injection activities.

117800103W004.docx 18

H - 392

<sup>&</sup>lt;sup>31</sup> The Interstate Technology & Regulatory Council (ITRC), 2008. *Technical/Regulatory Guidance, In-Situ Bioremediation of Chlorinated Ethene: DNAPL Source Zones*. June.

Prior to implementation of this alternative, coverage under the RWQCB's General Order must be obtained. To obtain coverage, a Notice of Intent (NOI) application and filing fee must be submitted to the RWQCB. A public notice period is also required. Drilling permits would also be required prior to performing direct-push injection activities and groundwater monitoring well installation. It is anticipated that State and community acceptance of this alternative would be obtainable.

## 4.3.2.3 Costs

The total estimated cost for Alternative 2 is \$645,000. As shown on Table 4, the total capital cost is \$340,000 and the total PRSC cost is \$305,000. Costs for this alternative were based on the following assumptions:

- The area of PCE groundwater concentrations that exceed 50  $\mu$ g/L in the upper zone is approximately 5,600 square feet. The area of PCE groundwater concentrations that exceed 100  $\mu$ g/L in the lower zone is approximately 13,600 square feet. The upper zone saturated thickness requiring treatment is 5 feet and the lower zone saturated thickness requiring treatment is 15 feet. Areal coverage would be achieved via injection into the upper zone only, with the expectation that it will penetrate the fine-grained unit and reach the lower zone. The initial area of influence at each injection point is anticipated to be the shape of a cylinder with a radius of 5 feet, with subsequent seepage into the lower zone, and continued upper and lower zone distribution controlled by groundwater flow, as occurred during the ISCO pilot study. Initial injection points would be 10 feet on center in rows and 10 feet on center between rows. Grab groundwater sampling will be performed to verify the initial lateral and vertical distribution to ensure coverage of the desired upper zone area and penetration into the lower zone. Injection point spacing would be modified based on the grab groundwater sampling results, as needed. Ongoing performance groundwater monitoring will be performed to monitor the subsequent migration of permanganate with groundwater;
- The required quantity of permanganate was calculated using a SOD of 0.3 g/kg, based on the overall average from laboratory SOD testing of site soil samples and the initial results of the pilot study. The permanganate injected during the pilot study was calculated based on an upper zone saturated thickness of 5 feet, a radius of influence of 20 feet, and a SOD of 1.0 g/kg (using 0.5 g/kg, the maximum SOD measured, with a safety factor of 2). As the permanganate actually treated the lower zone saturated thickness of 10 feet (twice the saturated thickness assumed) and migrated at least 40 feet within the lower zone, use of a safety factor is no longer appropriate. For the removal action application, only a portion of the permanganate required to meet the SOD will be injected initially. If needed to counter potential rebound effects (e.g., from matrix diffusion), another round of injections would subsequently be performed. Injection into the upper zone will be conducted using direct-push methods; however, if permanganate penetration into the lower zone is not confirmed, injection directly into the lower zone may be required;

- A total of approximately 6,000 pounds of permanganate would be injected into the upper zone during implementation of this alternative, in two injection events. This quantity of permanganate is sufficient to treat the upper and lower saturated zones. The calculation for the amount of permanganate associated with Alternative 2 is included in Appendix C;
- Sodium permanganate would be utilized for this alternative and blended with DI water to an injection concentration of approximately 3%;
- Four additional lower zone groundwater monitoring wells would be installed to act as compliance wells, as required by the General Order; and
- A groundwater monitoring program would continue for up to 10 years following the ISCO injection, but with only a limited number of wells and with a reduced monitoring and reporting frequency (i.e., annual rather than quarterly after the first year). It is noted that many closely-spaced wells are present in the pilot study area, but continued monitoring of all of these wells during full scale treatment would not be warranted. Detailed recommendations for removal action monitoring are provided in Section 5.0.

The total capital cost includes: permitting; well construction and development; transportation and disposal of investigation-derived waste (IDW); baseline groundwater monitoring and laboratory analytical services; permanganate injection material, blending, transportation and storage; a direct-push injection subcontractor allowance for injection into the upper zone only; and grab groundwater sampling to confirm permanganate distribution. Should injection into the lower zone be required, costs would increase. The total PRSC cost includes: post-injection groundwater monitoring; laboratory services; and reporting.

# 4.3.3 Alternative 3 - In-Situ Bioremediation Treatment using HRC®

This section evaluates Alternative 3, in-situ bioremediation using HRC® against the effectiveness, implementability, and cost criteria.

### 4.3.3.1 Effectiveness

ERD is generally recognized as being a feasible remedial approach for dissolved VOC mass<sup>29</sup>. An initial increase in dissolved phase VOCs can occur after substrate injection. Temporal increases in cis-1,2-DCE and/or vinyl chloride concentrations may also occur after substrate injection. Nuisance odors (i.e., sewer-type odors) may be associated with the treatment as it involves reductive reactions, but these are generally limited to the vicinity of injection wells. Methane gas can also be generated during the fermentation reactions. However, no known safety hazards have been associated with the use of ERD.

This alternative would have the ability to reduce PCE mass in groundwater through injection of HRC® into the subsurface. By reducing PCE mass through reductive dechlorination to a less toxic end product (ethene and/or ethane), this alternative would increase the protection of

human health and the environment by reducing risks associated with the presence of PCE in groundwater. However, during ERD treatment of PCE, degradation products of PCE will be formed (i.e., TCE, cis-1,2-DCE and vinyl chloride), creating a potential increased risk due to the presence of vinyl chloride (which is more toxic than PCE), and decreased protection of human health and the environment until such time as the dechlorination processes are complete. Bio-augmentation could be used to accelerate the dechlorination process to ethene, but it may not be completely successful. The reductive dechlorination of PCE to ethene is expected to occur over a period of two to five years, and complete mass reduction is not expected to be achieved.

This alternative would provide long-term and permanent reduction of PCE mass through reductive dechlorination, although there is the potential for rebound following treatment due to matrix diffusion (i.e., back diffusion of PCE sorbed to the fine-grained unit into the groundwater), and the potential to accumulate more toxic degradation products (i.e., vinyl chloride).

HRC® is a food grade material and therefore it poses no transportation risks. The area on-site where this alternative would be implemented is more than 700 feet away from the public street. Potential short term risks to site workers may include exposure to heated HRC® associated with the preparation of the substrate for injection, which could cause minor burns during removal action implementation. Site workers may also be exposed to fugitive dusts, hazardous soils, or groundwater encountered during well installation and direct-push injection activities. Risks to site workers could be mitigated using personal protective equipment and engineering controls.

## 4.3.3.2 Implementability

In-situ bioremediation or ERD is a well-proven, generally accepted, readily implementable technology that is a common method for treating PCE-affected groundwater. This alternative is technically simple to implement, with proven results for reducing PCE mass, but not necessarily for achieving low level treatment goals (i.e., MCLs or lower). It is common to reapply the donor material following the initial application, albeit the reapplications are typically done over a smaller area than the initial application. This technology has not been previously tested at the site, therefore it is unknown if bio-augmentation would be required to complete the dechlorination process, and the extent to which the biodegradation reactions will go to completion (even with bio-augmentation).

Similar to ISCO, as this technology is based on in-situ treatment, there may be some inherent distribution limitations due to subsurface lithologic variations with lenses of coarse-grained sands providing preferential flow paths for groundwater and reagents injected. The ability of ERD to address the PCE likely sorbed in the fine-grained unit is not known as pilot testing has not been completed. As this site exhibits more homogeneity in subsurface soils than many other sites where in-situ technologies have been applied with success (but not necessarily treating groundwater to low levels such as MCLs), in-situ treatment results are anticipated to

be successful, but it is not known whether the removal action goals can be achieved. A more likely scenario is that the active remediation period (i.e., ERD treatment) will be followed by a period of groundwater monitoring (albeit on a reduced schedule) to assess generally decreasing residual groundwater concentrations above the removal action goals.

Standard direct-push injection and material handling methods would be used for injection. Contractors are readily available and have the necessary equipment and specialists necessary to handle and perform injection activities.

Prior to implementation of this alternative, coverage under the RWQCB's General Order must be obtained. To obtain coverage, a NOI application and filing fee must be submitted to the RWQCB. A public notice period is also required. Drilling permits would also be required prior to performing direct-push injection activities and groundwater monitoring well installation. It is anticipated that State and community acceptance of this alternative would be obtainable.

### 4.3.3.3 Costs

The total estimated cost for Alternative 3 is \$805,000. As shown on Table 4, the total capital cost is \$480,000 and the total PRSC cost is \$325,000. Costs for this alternative were based on the following assumptions:

- As with Alternative 2, the area requiring treatment is 5,600 square feet in the upper zone and 13,600 square feet in the lower zone, based on the areas of elevated PCE groundwater concentrations;
- As with Alternative 2, the upper zone saturated thickness requiring treatment is 5 feet and the lower zone saturated thickness requiring treatment is 15 feet. However, due to its viscosity, it is not expected that the HRC® will migrate into the lower zone, and hence, treatment of both the upper and lower zones will be required;
- Regenesis, the supplier of HRC®, was consulted in determining the treatment strategy for this alternative based on current groundwater geochemistry, PCE groundwater concentrations and an approximate groundwater velocity of 0.5 feet per day (which was calculated based on the movement of permanganate between wells as evidenced when purple colored groundwater first appeared in well MW-24L on October 14, 2010). Lower cost HRC® primer (similar to sodium lactate) will be utilized to reduce competing electron acceptors (oxygen, nitrate and sulfur) and "kick-start" the reductive dechlorination reactions. A copy of Regenesis' proposal is provided in Appendix D;
- A one-time application of approximately 8,160 pounds of HRC® substrate and 1,100 pounds of HRC® primer would be injected into the upper and lower zones during implementation of this alternative;

- Upper zone injection point spacing would be 10 feet on center within rows and 20 feet on center between rows. Lower zone injection point spacing would be 10 feet on center within rows and 30 feet on center between rows;
- A one-time bio-augmentation, following the HRC® injection and when the aquifer is anaerobic, using approximately 135 liters of Bio-Dechlor Inoculum (BDI) into half of the injection points;
- Four additional lower zone groundwater monitoring wells would be installed to act as compliance wells, as required by the General Order; and
- A groundwater monitoring program would continue for up to 10 years following the ERD injection, but with only a limited number of wells and with a reduced monitoring and reporting frequency (i.e., annual rather than quarterly after the first year). It is noted that many closely-spaced wells are present in the pilot study area, but continued monitoring of all of these wells during full scale treatment would not be warranted.

This alternative assumes a one-time application of HRC® substrate; the need to reapply HRC® would increase the cost. It is common to reapply HRC® material one or two times, although the reapplications are typically done over a smaller area than the first application. Reapplication costs are not included in this evaluation. This alternative includes costs for bio-augmentation, as the use of bio-augmentation is now relatively common at most sites.

The total capital cost includes: permitting; well construction and development; transportation and disposal of IDW; baseline groundwater monitoring and laboratory analytical services; ERD injection material (HRC®), transportation and storage; and a direct-push injection subcontractor allowance for injection into the upper and lower zones. The total PRSC cost includes: post-injection groundwater monitoring; laboratory services; and reporting.

## 4.4 Comparative Analysis of Removal Action Alternatives

This section presents a comparative analysis of alternatives (Alternative 1, 2, and 3) to evaluate the relative performance of each alternative in relation to the effectiveness, implementability and cost criteria. A table providing a comparison of the alternatives is provided on Table 5.

### 4.4.1 Effectiveness

Alternative 1 (the "no action" alternative) would not have the ability to meet the objective of the removal action and would not be protective of human health or the environment because the PCE-affected groundwater would remain and, therefore not appreciably reduce, control, or eliminate potential risks. Alternatives 2 and 3 would both have the ability to reduce PCE mass, but due to the nature and extent of PCE and technological constraints, neither may achieve the removal action goals; to account for such, a period of groundwater monitoring is included. Alternative 2 would have the added advantage, based on initial ISCO pilot study results, that permanganate could be injected into only the upper zone, which would allow

contact with the fine-grained unit and potentially address sorbed PCE, and reduce associated injection costs. Treatment of PCE sorbed to the fine-grained unit between the upper and lower zones would be effective in reducing plume longevity by reducing matrix diffusion effects. Alternative 2 (ISCO) is also a more rapid treatment technology, and would not result in the potential accumulation of more toxic degradation products (i.e., vinyl chloride) as would be expected to occur during Alternative 3 (ERD).

Alternatives 2 and 3 would provide long-term and permanent PCE mass reduction through chemical oxidation and anaerobic degradation, respectively. With Alternative 3, the PCE mass reduction will take longer than with Alternative 2. With both Alternatives 2 and 3, there is the potential for rebound following treatment due to back diffusion of PCE sorbed to the fine-grained unit into the groundwater or migration of untreated upgradient groundwater. Alternative 2 has the potential to reduce rebound associated with matrix diffusion, because as shown in the ISCO pilot study at the site, permanganate injected in the upper zone appeared to penetrate through the fine-grained unit into the lower zone; whether this will occur with Alternative 3 is not known. With Alternative 2, there is the potential for the generation of hexavalent chromium, and thus additional toxicity; however, based on initial results from the ISCO pilot study, increased hexavalent chromium concentrations are likely temporary. With Alternative 3, there is the potential for the accumulation of more toxic degradation products (i.e., vinyl chloride).

Alternative 1 would not increase short-term impacts to site workers or the community because there are no implementation activities associated with this alternative; however, Alternative 1 also would not appreciably reduce potential risks to human health and the environment. Because permanganate is a strong oxidizer, Alternative 2 could have short-term risks to the community during transportation to the site (i.e., accidental spills and release); and potential short-term risks to site workers including exposure to permanganate during storage and handling activities associated with implementation (must avoid eye and skin contact). Alternative 3 would have no potential short-term risks to the community associated with the use of this technology, as HRC® is food grade material, and poses no transportation risks. With Alternative 3, potential short-term risks to site workers may include exposure to heated HRC® associated with preparation of the substrate for injection, which could cause minor burns, during removal action implementation.

During implementation of Alternatives 2 and 3, site workers may also be exposed to fugitive dusts, hazardous soils, or PCE-affected groundwater encountered during monitoring well installation and direct-push injection activities. Risks to site workers could be mitigated using personal protective equipment and engineering controls.

### 4.4.2 Implementability

Alternative 1 would be the easiest to implement because no activities would be conducted. Alternatives 2 and 3 are both well-proven, generally accepted, and readily implementable technologies that are common methods for treating PCE-affected groundwater. Both are

technically easy to implement. Alternative 2 (ISCO) has the advantage of previously being successfully pilot tested at the Site, with known distribution into the lower zone via upper zone injection only, and hence, the need for lower zone injections is less likely with Alternative 2.

Alternatives 2 and 3 are both in-situ treatment technologies; therefore they have some inherent distribution limitations due to subsurface lithologic variations. There are lenses of coarse-grained sands providing preferential flow paths for groundwater and reagents injected; and fine-grained materials (present primarily in the fine-grained unit between the upper and lower zones) that provide sorption sites for PCE. It is anticipated that in-situ treatment using either Alternative 2 or 3 would be successful for PCE mass reduction. Alternative 2 (ISCO) has the advantage of previously being successfully implemented at the site with initial pilot study results indicating permanganate migration from the upper zone through the fine-grained unit to the lower zone. Alternative 3 (ERD) has not been previously tested at the site, and it is unknown if ERD would be able to address the PCE that is likely sorbed to the fine-grained unit.

No permits would be required under Alternative 1. Prior to implementation of Alternatives 2 and 3, coverage under the RWQCB's General Order would have to be obtained and a public notice period would be required. Drilling permits would also be required prior to implementation of direct-push injection activities and groundwater monitoring well installation associated with Alternatives 2 and 3.

Alternatives 2 and 3 would use standard direct-push injection and material handling methods. Contractors are readily available and have the necessary equipment and specialists to handle and perform injection activities.

Alternative 1 ("no action") would not have the ability to meet the removal action goals; therefore it does not meet the effectiveness criteria and State and community acceptance would likely be unobtainable. It is anticipated that State and community acceptance of Alternatives 2 (ISCO) and 3 (ERD) would be obtainable.

#### 4.4.3 Cost

The total estimated capital cost and total cost (with long-term monitoring) for each alternative is summarized as follows:

- Alternative 1: Capital Cost=\$0 & Total Cost=\$0;
- Alternative 2: Capital Cost=\$340,000 & Total Cost=\$645,000
- Alternative 3: Capital Cost=\$480,000 & Total Cost=\$805,000

There is no cost associated with Alternative 1 (the "no cost" alternative), due to the fact there is no implementation required as part of this alternative; it has been assumed that well abandonment would be completed when other wells are abandoned at the East Mill and are not included in this evaluation. Alternative 2 (ISCO) has a lower cost to implement than

Alternative 3 (ERD). The capital costs associated with Alternatives 2 and 3 include: permitting; well construction and development; transportation and disposal of IDW; baseline groundwater monitoring and laboratory analytical services; and a direct-push injection subcontractor allowance. Alternative 2 has additional capital costs associated with the permanganate material, blending, transportation, and storage. Alternative 3 has additional capital costs associated with ERD injection material (including bio-augmentation), transportation, and storage.

The total PRSC costs for Alternatives 2 and 3 include: post-injection groundwater monitoring; laboratory services; and reporting. Alternative 2 and 3 have different post-injection monitoring laboratory analysis requirements. Present worth costs were calculated for a ten year annual monitoring period following injection activities, as removal action goals may not be achieved. Alternative 3 (ERD) is more costly than Alternative 2 (ISCO) due largely to the higher injection costs (to inject in the lower zone), additional bio-augmentation requirements, and the higher monitoring costs associated with a more comprehensive analytical suite for ERD than ISCO.

## 4.5 Recommended Removal Action Alternative

Based on the removal action alternative analysis presented above, Alternative 2 (ISCO using permanganate) is recommended. This recommendation is based on the effectiveness of the ISCO pilot study treatment to date, site-specific factors (the demonstrated longevity of the permanganate due in part to the atypically low SOD at the site), and the limited adverse effects (limited mobilization of hexavalent chromium). Alternative 2 (ISCO) is also expected to reduce PCE mass more quickly than Alternative 3 (ERD), has less potential to form more toxic degradation products (i.e., vinyl chloride), and has a lower implementation cost. Alternative 2 best meets the criteria of effectiveness, implementability and cost.

## 5.0 REMOVAL ACTION (PERMANGANATE) IMPLEMENTATION PLAN

As described in Section 4.0, the recommended removal action alternative for PCE-affected groundwater at the site is ISCO using permanganate. The treatment targets the areas of elevated PCE groundwater concentrations: PCE above 50  $\mu$ g/L for the upper zone, and PCE above 100  $\mu$ g/L for the lower zone. The ISCO removal action using sodium permanganate will include the following tasks:

- Obtain coverage under the RWQCB's General Order. DTSC approval of this RAW and CEQA determination is needed for the RWQCB to initiate the General Order process;
- Install four lower zone monitoring wells downgradient of the removal action treatment area to assist with the permanganate injection monitoring program. Two wells will be used to monitor the ISCO distribution downgradient of the injection area. Two wells will serve as new compliance wells, which are required by the General Order;

- Conduct a baseline groundwater monitoring event;
- Laboratory amendment analysis on a 3% sodium permanganate solution, in accordance with General Order requirements;
- Initial injection event using approximately 5,000 gallons of 3% sodium permanganate solution into a pre-determined portion of the upper zone treatment area via 14 temporary direct-push injection points (approximately 350 gallons per point);
- Grab groundwater sampling following the initial injection event to confirm the lateral and vertical distribution of permanganate;
- Second injection event using approximately 5,000 gallons of 3% sodium permanganate solution into the upper zone treatment area. The number of subsequent injection points and permanganate injection volumes will be assessed based on the results of grab groundwater sampling to assess permanganate distribution after the initial upper zone injection event. Should sufficient coverage of the desired upper and lower zone area be obtained after the first injection event, this injection event (or subsequent injection events) may not be necessary;
- Conduct groundwater monitoring to assess the progress of the permanganate injection at selected monitoring wells;
- Repeat permanganate injections, as needed, to cover the desired area. Interim grab groundwater sampling, to access distribution within the lower zone, may be needed to assess whether additional injection are warranted; and
- Post-injection groundwater monitoring.

Details for each of these activities is provided in the following sections.

## **5.1** General Order Requirements

Prior to conducting the permanganate injection removal action, coverage under the RWQCB's General Order must be obtained. A NOI application was submitted to the RWQCB on May 6, 2011. DTSC approval of this RAW and CEQA determination is required to receive RWQCB coverage under the General Order.

With regard to potential changes in groundwater quality, Finding #14 of the General Order states: "temporal degradation of groundwater may occur at sites subject to this Order within the defined treatment zone due to the amended groundwater injection." Other specific requirements with regards to groundwater quality are provided in Section E of the General Order. Groundwater limitations include the following:

- The pH outside of the treatment zone should not shift outside of the range of 6.5 to 8.5; and
- Groundwater concentrations at compliance well(s) must not increase more than 20 percent greater than background concentrations for metals, total dissolved solids, or electrical conductivity.

For this ISCO project, the concerns with regard to the compliance wells are changes to dissolved and total metals concentrations (in particular manganese and chromium), as permanganate treatment necessitates the addition of manganese and the chemical oxidation process can mobilize metals. As the SOD and chemical oxidant demand for permanganate usage are low at this site, the permanganate injections will be conducted in a conservative manner (i.e., in phases) to ensure that excessive permanganate is not injected.

## **5.2 Pre-Field Activities**

Prior to commencement of field activities, respective permit applications will be submitted to the Contra Costa County Environmental Health Division (CCCEHD) in order to obtain permits for construction of the additional groundwater monitoring wells and for injection activities related to the permanganate application.

Additionally, prior to subsurface work activities, Underground Service Alert will be contacted and a private utility locator service will be retained to survey the proposed drilling areas for underground utilities that may interfere with subsurface work activities.

Prior to initiating field activities at the site, PES will review, and if necessary, update the site-specific Health and Safety Plan (HASP) for the implementation of this RAW. The HASP will comply with applicable federal and California Occupational Safety and Health Administration (OSHA) guidelines.

## 5.3 Construction of Additional Lower Zone Groundwater Monitoring Wells

Four additional lower zone groundwater monitoring wells will be installed downgradient and cross-gradient of the injection area. Two wells, MW-34L and MW-35L (as shown on Plate 13), will be constructed downgradient of the injection area to assist in monitoring treatment performance (with permanganate transport controlled by groundwater flow). In addition, two compliance wells, MW-36L and MW-37L (as shown on Plate 13), will be constructed downgradient and cross-gradient to the east and the west of the target treatment area. The lower zone groundwater monitoring wells will be screened below the bottom of the fine-grained unit with a 10-foot screen interval (i.e., from approximately 36 to 46 feet bgs, based on prior lithologic observations). The details and procedures for the construction and development of lower zone groundwater monitoring wells MW-34L through MW-37L are provided in Appendix E.

## **5.4 ISCO Groundwater Monitoring Program**

The General Order provides a recommended monitoring program for chemical oxidation projects upon RWQCB approval of the NOI. It is anticipated that the ISCO removal action monitoring program will include the same constituents as the MRP for the ISCO pilot study.

It should be noted that the MRP originally issued under the General Order for the ISCO pilot study was revised based on initial groundwater monitoring results conducted to assess the progress of the permanganate injection. On January 31, 2011, PES submitted the 2010 Annual Report for the ISCO pilot study to the RWQCB and proposed a revised constituent suite for the MRP to include only those analytes that had proven useful in assessing permanganate distribution (or adverse effects)<sup>20</sup>. The recommended constituents for the revised ISCO monitoring program include:

- Halogenated VOCs using EPA Method 8260B;
- Sodium (total and dissolved) using EPA Method 6010B or 6020;
- Manganese (dissolved) using EPA Method 200.7, 6010B or 6020;
- Chromium (total and dissolved) using EPA Method 200.7, 6010B or 6020;
- Hexavalent chromium (dissolved) using EPA Method 7199;
- Chemical oxygen demand using Test Method SM5220D. Test Method SM5220D is not significantly different than EPA Method 410.4, although it is noted that EPA Method 410.4 allows for the use of an auto-sampler to introduce the samples to the spetrophotometer; and
- Total dissolved solids (TDS) using Test Method SM2540C.

No changes were proposed to the collection of field parameters. In an email dated February 23, 2011, RWQCB staff concurred with the revised constituent suite for the monitoring program, with the addition of some constituents<sup>32</sup>. The additional constituents required by RWOCB staff to be analyzed as part of the MRP include:

- Total metals (copper, iron, and lead) using EPA Method 6010B or 6020; and
- Dissolved metals (arsenic) using EPA Method 6010B or 6020.

<sup>&</sup>lt;sup>32</sup> RWOCB, 2011. Email correspondence from Siddharth Sewalia, Subject: RE: Forestar, Antioch, ISCO Monitoring Program Changes. February 23.

Groundwater sampling will be performed using low-flow methodologies, in general accordance with EPA recommended low-flow sampling procedures<sup>33</sup>. Field parameters to be measured during groundwater monitoring include: depth to water, temperature, pH, conductivity, turbidity, dissolved oxygen, oxidation-reduction potential, visual observation for the presence or absence of purple colored groundwater, and the volume purged. Groundwater sampling procedures are included in Appendix F.

## 5.5 ISCO Removal Action Groundwater Monitoring Well Network

The East Mill groundwater monitoring well locations are shown on Plate 6. The monitoring well network proposed for the ISCO removal action, which would be included in the new MRP, is as follows:

- Five upper zone wells (MW-13U, MW-19A, MW-21U, MW-23U, and MW-27U) to assess lateral and downgradient permanganate distribution;
- Seven lower zone wells (MW-13L, MW-19B1, MW-23L, MW-27L, MW-33L, new well MW-34L, and new well MW-35L) to assess lateral, vertical and downgradient permanganate distribution; and
- Three compliance wells (MW-28L, new well MW-36L, and new well MW-37L) to meet the General Order requirement for compliance wells.

# **5.6 Baseline Monitoring**

A baseline monitoring event to establish background groundwater concentrations will be conducted prior to implementation of the permanganate injection. Wells will be sampled for the constituents listed in Section 5.4. Many of the wells were sampled as part of the current monitoring program for the site and only supplemental monitoring may be required.

## **5.7** Amendment Analysis

Amendment analysis of the sodium permanganate reagent to be used for injection diluted with laboratory supplied DI water to an approximately 3% sodium permanganate solution will be completed, and the results will be submitted to the RWQCB for approval. The General Order requires that prior to use, amendments (sodium permanganate in this case) be analyzed for the following constituents using the stipulated methods or an equivalent EPA Method that achieves the maximum Practical Quantitation Limit:

- VOCs using EPA Method 8020 or 8260B;
- General minerals (alkalinity, bicarbonate, potassium, chloride, sulfate, total hardness, nitrate, nitrite, ammonia) using EPA 200.7, 200.8;

30 117800103W004.docx

H - 404

<sup>&</sup>lt;sup>33</sup> Puls, R.W. and Barcelona, M.J.. U.S. Environmental Protection Agency, Region 2, 1996. Ground Water Sampling Procedure, Low Stress (Low Flow) Purging and Sampling. July 30.

- Metals, total and dissolved (arsenic, barium, cadmium, calcium, total chromium, copper, iron, lead, manganese, magnesium, mercury, molybdenum, nickel, selenium and silica) using EPA Method 8270;
- Semi-volatile organic compounds using EPA Method 8270;
- TDS using EPA 160.1; and
- pH and electrical conductivity using a meter.

The amendment analyses will be performed using the same sodium permanganate supplier (and lot of permanganate) that will be used for the injection and laboratory supplied DI water.

### **5.8 Permanganate Injection Plan**

The target PCE treatment areas are shown on Plates 12 and 13. The upper zone targets the area with PCE groundwater concentrations that exceed 50 µg/L (approximately 5.600 square feet). The lower zone targets the area with PCE groundwater concentrations that exceed  $100 \mu g/L$  (approximately 13,600 square feet).

## **5.8.1 Sodium Permanganate Volume**

As previously stated, the permanganate injections will be conducted in a conservative manner (i.e., in phases) to ensure that excessive permanganate is not injected. The quantity of permanganate calculated for coverage of the upper and lower zone treatment areas is approximately 6,000 pounds of 100% permanganate. This equates to 15,000 pounds of 40% permanganate solution. The 15,000 pounds of 40% sodium permanganate solution will be blended with DI water to create approximately 23,300 gallons of 3% sodium permanganate solution for injection.

The required amount of permanganate was calculated using the following assumptions:

- Area requiring treatment is 5,600 square feet in the upper zone and 13,600 square feet in the lower zone;
- Saturated thickness requiring treatment is 5 feet in the upper zone and 15 feet in the lower zone:
- Assumed soil density of 120 pounds per cubic foot with 30% porosity;
- Chemical oxidant demand of 0.96 grams of permanganate per gram of PCE for complete mineralization<sup>34</sup>;

<sup>&</sup>lt;sup>34</sup> ITRC, In Situ Chemical Oxidation Team, 2005. Technical and Regulatory Guidance for In Situ Chemical Oxidation of Contaminated Soil and Groundwater, Second Edition. January.

- SOD of 0.3 grams of permanganate per kilogram of dry soil based on results from the laboratory SOD testing and initial results of the pilot study; and
- Sodium permanganate will be blended with DI water to an injection concentration of approximately 3%.

Sodium permanganate injection volume calculations are provided in Appendix G.

## 5.8.2 Delivery

The 3% sodium permanganate solution will be delivered to the site in 5,000 gallon tanker trucks or mixed onsite (using DI water delivered to the site) as was done for the ISCO pilot study. Sodium permanganate solution and injection equipment will be staged in a secondarily contained area.

## 5.8.3 Injection

Distribution of permanganate throughout the upper and lower zone treatment areas will be performed by initially injecting permanganate into the upper zone. Based on the results of the pilot study, it is expected that the permanganate will penetrate the fine-grained unit with subsequent seepage into the lower zone. Continued lower zone transport of permanganate via groundwater flow, as occurred during the ISCO pilot study, is expected until the permanganate is depleted. As the SOD at the site is atypically low, and the chemical oxidant demand is low due to the relatively low PCE groundwater concentrations, the permanganate is expected to exhibit longevity (i.e., a little is expected to go a long way). The injection will be performed in phases, with the initial injection event using approximately 5,000 gallons of 3% sodium permanganate solution into a portion of the upper zone treatment area via 14 temporary direct-push injection points, resulting in approximately 350 gallons per injection point.

Permanganate injection will be performed using direct-push drilling methods and appropriate pumps by a drilling subcontractor experienced in permanganate injection. Injection point spacing will be set up in a grid pattern with rows that are oriented perpendicular to the direction of groundwater flow. The number of injection points and corresponding gallons per point is based on injection point spacing of 10 feet on center within rows and 10 feet on center between rows across the entire upper zone for coverage of the upper and lower zone treatment areas. The point spacing will be staggered between rows (i.e., the injection points in the second row will be offset by 5 feet from the first row), within the upper zone (refer to Plate 12).

Technical and regulatory guidelines for ISCO projects describe an inverted cone distribution when equal volumes are delivered at each depth interval<sup>32</sup>. To achieve a more uniform distribution throughout the upper zone (and counter the potential for rapid downward movement), approximately twice as much solution will be injected into the top 2 feet, than into the bottom 3 feet, of the 5-foot upper zone injection interval. Temporary injection points will be advanced to a depth of approximately 30 feet bgs (the bottom of the upper zone,

above the fine-grained unit). The injection tooling will be retracted in five, 1-foot intervals to approximately 25 feet bgs, with injection at each interval. Approximately 40 gallons of solution will be injected into each of the bottom 3 injection intervals (30 to 27 feet bgs) and approximately 115 gallons will be injected into each of the top 2 injection intervals (27 to 25 feet bgs). As permanganate is denser than groundwater, the solution will naturally migrate downward and is expected to penetrate the fine-grained unit and reach the lower zone. Following application of permanganate, the temporary injection points will be retracted and the boreholes will be sealed to the ground surface with bentonite/cement grout. The injection sequence will be staggered to ensure that adjacent boreholes are grouted (and allowed to cure for at least 24 hours) to reduce the potential for short-circuiting (the movement of permanganate back up through an adjacent borehole).

Injection rates will initially be 5 gallons per minute (gpm) and gradually increased to 10 gpm (the maximum injection rate attempted during the ISCO pilot study injection), as long as the formation continues to take the solution, as evidenced by no short-circuiting back up the borehole or surfacing elsewhere. During injection, the injected amendments will be metered in gallons per day (and converted to kilograms per day) as required by the General Order. As required, a copy of the General Order will be maintained at the project site and will be available to operating personnel. When injection activities are completed, the remaining reagents (if any) will be neutralized in accordance with recommended practices in the Material Safety Data Sheet; preferably, any remaining reagent will be injected.

Approximately one to two weeks following completion of the initial phase of direct-push injections, grab groundwater sampling will be conducted surrounding the injection points to assess the initial lateral distribution of the 3% permanganate solution. Grab groundwater samples will be collected at multiple cross-gradient locations from selected injection point(s) to assess the lateral distribution. Groundwater samples will be visually inspected for the presence or absence of purple colored groundwater, which is indicative of the presence of permanganate. Grab groundwater sampling will also be performed to confirm that the permanganate solution has penetrated the fine-grained unit and to assess the lateral distribution within the lower zone.

Subsequent permanganate injection spacing, number of points, injection quantities, injection rates and procedures will be modified, if necessary, and completed utilizing results from the initial injection event and grab groundwater sampling. Following the initial injection and grab groundwater sampling, additional permanganate solution may be injected into the upper zone and/or lower zone, followed by additional grab groundwater sampling to confirm the desired permanganate distribution. Once the permanganate reaches the lower zone, permanganate transport will be controlled by the natural groundwater flow.

## 5.8.4 Permanganate Contingency Plan

The General Order requires a contingency plan for corrective actions should water quality parameters exceed the requirements of the Order at the point of compliance. As previously stated, the General Order prohibits concentrations of metals, TDS, or electrical conductivity

to increase 20% above their respective background concentrations. The pH of the groundwater at the compliance point is prohibited from shifting outside of the range of 6.5 to 8.5. Additionally, the injection must not cause the groundwater to contain taste- or odor-producing substances that cause nuisance or to adversely affect beneficial uses at the point of compliance.

Should any of the water quality parameters noted above exceed background (or baseline concentrations) by greater than 20% in the farthest downgradient compliance well (MW-28L), the well will be resampled (within one month of receipt of the results or as soon as practicable) and re-analyzed for the constituent of concern. If the resampling confirms the result, a more frequent monitoring program (i.e., monthly) will be implemented to assess trends for a period of up to one quarter. If declining trends are not noted, injection of a permanganate-neutralizing solution or a reducing agent will be utilized to return water quality to within 20% of baseline conditions in areas beyond the compliance wells. Prior to initiating injection of a neutralizing solution or reducing agent, a letter discussing the planned activity will be submitted to DTSC/RWQCB for approval. Alternatively, a request to change the point of compliance may be submitted to the RWQCB.

## **5.9 Post-Injection Monitoring**

A post-injection groundwater monitoring program will be implemented to monitor the permanganate treatment performance. Post-injection groundwater monitoring will be conducted in accordance with the MRP to be issued for the ISCO removal action. Wells will be sampled for the constituents listed in Section 5.4. Post-injection monitoring results will be used to evaluate the permanganate coverage of the targeted areas, and to assess the need for and location of subsequent injection events. As groundwater at the site moves slowly (approximately 0.25 to 0.50 feet per day in the lower zone based on observed permanganate downgradient distribution in wells MW-24L, MW-22L, and MW-23L) and because grab groundwater sampling will be utilized to assess distribution, semi-annual monitoring and reporting is recommended. It should be noted that the wells will continue to be monitored for color (indicative of permanganate movement), VOCs, select metals, and TDS under the current DTSC-mandated quarterly monitoring program. Following approximately one-year of post-injection monitoring and based on confirmed dissipation of the permanganate solution, a less frequent monitoring and reporting program will be requested for long-term post-treatment monitoring.

### 6.0 TENTATIVE SCHEDULE

The schedule for implementation of the permanganate injection removal action is as follows:

• The NOI application was submitted on May 6, 2011 to obtain coverage under the RWQCB General Order. A DTSC public comment period and DTSC approval of this RAW is required prior to the RWQCB approval of the NOI. It is anticipated that the NOI application will require 30 days for agency review;

- Additional lower zone groundwater monitoring wells will be installed and developed within 30 days of receiving approval of the NOI, subject to drilling equipment availability;
- Additional lower zone groundwater monitoring wells will be sampled prior to the actual permanganate injection activities;
- Amendment analyses of the sodium permanganate reagent diluted with laboratory supplied DI water to an approximately 3% sodium permanganate solution will be completed within 30 days of receiving DTSC approval of this RAW, and the results will be submitted to the RWQCB for approval;
- The actual permanganate injection activities will be initiated within 45 days following RWQCB approval of the NOI, after completion of the amendment analyses, subject to drilling equipment availability; and
- Post-injection monitoring and reporting will be conducted semi-annually for one year, after which time a request for a revised long-term monitoring and reporting program (i.e., annual, for selected wells only) will be submitted.

#### 7.0 CEQA REQUIREMENTS AND PUBLIC PARTICIPATION

Coverage under the previously referenced RWQCB General Order will be obtained to implement the proposed ISCO remediation plan. The General Order states: "The action to adopt these Waste Discharge Requirements is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21000, et seq.) (CEQA) because it: (1) authorizes activity that will result in a minor modification to land pursuant to Title 14, California Code of Regulations, Section 15304; (2) consists of an action by a regulatory agency authorizing actions for the protection of the environment pursuant to Title 14, California Code of Regulations, Section 15308; and (3) authorizes minor cleanup actions costing \$1.5 million or less that are taken to prevent, minimize, stabilize, mitigate, or eliminate the release or threat of release of a hazardous waste or substance pursuant to Title 14, California Code of Regulations, Section 15330."

A California Environmental Quality Act (CEQA) Notice of Exemption (NOE) has been prepared by DTSC for the RAW and its implementation. A copy of the NOE is included in Appendix H. The NOE states that the project: will not result in the potential for significant environmental effects, provides overall protection of human health, and is categorically exempt.

The draft RAW and proposed NOE were made available for public review and comment during the period September 23 through October 24, 2011. A public notice was placed in the East Contra Costa Times on September 23, 2011 to announce the start and duration of the comment period, and the locations of information repositories where the public could review

117800103W004.docx 35

project documents. In addition, a fact sheet was prepared and distributed that discussed the RAW, and opportunities for public participation during the RAW approval proceedings.

No verbal or written comments were received during the public comment period. DTSC has prepared a responsiveness summary describing the process and outcome of the public participation. The responsiveness summary is included in Appendix I.

Having received DTSC approval, the RWQCB is expected to issue coverage under the General Order within 30 days.

117800103W004.docx 36

### **TABLES**

### Table 1 Well Construction Details ISCO Pilot Study Area East Mill

### Former Gaylord Container Corporation Facility Antioch, California

Well Name	Diameter (inches)	Ground Surface Elevation (feet msl)	TOC Elevation (feet msl)	Total Well Depth (feet bgs)	Screened Interval (feet bgs)				
		Upper	Zone Wells						
IW-1U	4	30.27	30.04	30	19.5 to 29.5				
MW-13U	2	30.12	29.93	28	17.5 to 27.5				
MW-19A	0.4	28.17	30.97	26.5	21.5 to 26.5				
MW-20U	2	30.00	29.66	29	18.5 to 28.5				
MW-21U	2	29.91	29.69	29.5	19 to 29				
MW-22U	2	30.04	29.79	29	18.5 to 28.5				
MW-23U	2	30.00	29.69	30	19.5 to 29.5				
MW-24U	2	30.10	29.81	29	18.5 to 28.5				
MW-25U	2	30.76	30.58	29	18 to 28				
MW-26U	2	29.94	29.71	29	18.5 to 28.5				
MW-27U	2	29.94	29.61	29	18 to 28				
		Lower	Zone Wells						
IW-1L	4	30.22	29.96	46.5	36 to 46				
MW-13L	2	30.12	29.79	47.5	35 to 45				
MW-19B1	0.4	28.17	30.97	36.5	31.5 to 36.5				
MW-19B2	0.4	28.17	30.97	45	39.5 to 45				
MW-20L	2	30.00	29.54	48.5	36 to 46				
MW-21L	2	29.91	29.57	49	36.5 to 46.5				
MW-22L	2	30.04	29.66	48.5	36 to 46				
MW-23L	2	30.05	29.74	46	35.5 to 45.5				
MW-24L	2	30.10	29.69	50.5	38 to 48				
MW-25L	2	30.76	30.48	50.5	36 to 46				
MW-26L	2	29.94	29.63	48.5	36 to 46				
MW-27L	2	29.94	29.50	48	35.5 to 45.5				
	L2 Lower Zone Wells								
MW-23L2	2	30.05	29.68	72	59.5 to 69.5				

#### Notes:

Well series MW-19 are continuous multichannel tubing (CMT) wells.

bgs = below ground surface.

msl = mean sea level.

TOC = top of casing.

The North American Vertical Datum 1988 (NAVD88) was used as the elevation reference.

The survey was based on location elevation data provided by PES. Location ties were made from existing wells MW-18 and MW-19. Elevation tie was made from existing well GCC-04 top of casing by differential leveling.

Well Name	Sample Name	Date Collected	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl Chloride (µg/L)	Total Cr (µg/L)	Dissolved Cr (µg/L)	Total Hex Chrome (µg/L)	Dissolved Hex Chrome (µg/L)
				Upper	Zone				•	
GCC-01	GCC-01-GW	2/9/09	< 0.5	< 0.5	< 0.5	< 0.5	15			
GCC-01	GCC-01-GW	4/21/09	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-01	GCC-01-GW	9/22/09	< 0.5	< 0.5	< 0.5	< 0.5		13		
GCC-01	GCC-01-GW	12/15/09	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-01	GCC-01-GW	2/17/10	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-01	GCC-01-GW	5/10/10	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-01	GCC-01-GW	8/3/10	< 0.5	< 0.5	< 0.5	< 0.5		17		
GCC-01	GCC-01-GW	11/8/10	< 0.5	< 0.5	< 0.5	< 0.5				
IW-1U	IW-1U-GW	9/25/09	36	< 0.5	< 0.5	< 0.5	7.3	6.2	< 0.01	
IW-1U	IW-1U-GW	12/18/09	45	0.5	< 0.5	< 0.5		5.6		
IW-1U	IW-1U-GW	2/19/10	42	0.7	< 0.5	< 0.5				
IW-1U	IW-1U-GW	5/13/10	40	< 0.5	< 0.5	< 0.5				
IW-1U	IW-1U	8/6/10	33	< 0.5	< 0.5	< 0.5	13	15	14	
IW-1U	IW-1U-GW	10/22/10	< 0.5	< 0.5	< 0.5	< 0.5			< 0.55 b	
IW-1U	IW-1U-GW	11/12/10	< 0.5	< 0.5	< 0.5	< 0.5	1,300	1,400		< 0.56
IW-1U	IW-1U-GW-QCFD	11/12/10	< 0.5	< 0.5	< 0.5	< 0.5		1,500		
IW-1U	IW-1U	12/20/10	< 0.5	< 0.5	< 0.5	< 0.5				390
IW-1U	IW-1U-GW-QCFD	12/20/10	< 0.5	< 0.5	< 0.5	< 0.5				470
MW-13U	MW-13U-GW	9/23/09	2.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-13U	MW-13U-GW	12/18/09	2.7	< 0.5	< 0.5	< 0.5				
MW-13U	MW-13U-GW	2/19/10	1.8	< 0.5	< 0.5	< 0.5				
MW-13U	MW-13U-GW	5/13/10	2.2	< 0.5	< 0.5	< 0.5				
MW-13U	MW-13U-GW	8/6/10	3.0	1.6	0.5	< 0.5	< 1.0	4.2	< 0.5	
MW-13U	MW-13U-GW	11/10/10	2.6	1.2	< 0.5	< 0.5		9.6		11
MW-15	MW-15-GW	2/12/09	< 0.5	< 0.5	< 0.5	< 0.5	14			
MW-15	MW-15-GW	4/21/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-15	MW-15-GW	9/22/09	< 0.5	< 0.5	< 0.5	< 0.5		16		
MW-15	MW-15-GW	12/15/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-15	MW-15-GW	2/17/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-15	MW-15-GW	5/10/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-15	MW-15-GW	8/3/10	< 0.5	< 0.5	< 0.5	< 0.5		18		
MW-15	MW-15-GW	11/9/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18A2	MW-18A2-GW	2/12/09	0.6	< 0.5	< 0.5	< 0.5	< 5.0			
MW-18A2	MW-18A2-GW-QCFD	2/12/09	0.8	< 0.5	< 0.5	< 0.5	< 5.0			
MW-18A2	MW-18A2-GW	4/22/09	0.8	< 0.5	< 0.5	< 0.5				
MW-18A2	MW-18A2-GW	9/21/09	0.5	< 0.5	< 0.5	< 0.5		< 1.0		
MW-18A2	MW-18A2-GW	12/16/09	0.6	< 0.5	< 0.5	< 0.5				
MW-18A2	MW-18A2-GW	2/17/10	0.5	< 0.5	< 0.5	< 0.5				
MW-18A2	MW-18A2-GW	5/10/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18A2	MW-18A2-GW	8/4/10	0.5	< 0.5	< 0.5	< 0.5		< 1.0		
MW-18A2	MW-18A2-GW	11/8/10	0.6	< 0.5	< 0.5	< 0.5				

Well Name	Sample Name	Date Collected	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl Chloride (µg/L)	Total Cr (µg/L)	Dissolved Cr (µg/L)	Total Hex Chrome (µg/L)	Dissolved Hex Chrome (µg/L)
MW-19A	MW-19A-GW	2/11/09	10	< 0.5	< 0.5	< 0.5	14			
MW-19A	MW-19A-GW	4/23/09	9.2	< 0.5	< 0.5	< 0.5				
MW-19A	MW-19A-GW	9/25/09	5.9	< 0.5	< 0.5	< 0.5		10		
MW-19A	MW-19A-GW	12/16/09	8.2	< 0.5	< 0.5	< 0.5				
MW-19A	MW-19A-GW	2/17/10	5.4	< 0.5	< 0.5	< 0.5				
MW-19A	MW-19A-GW	5/11/10	6.4	< 0.5	< 0.5	< 0.5				
MW-19A	MW-19A-GW	11/9/10	7.0	< 0.5	< 0.5	< 0.5				
MW-20U	MW-20U-GW	9/24/09	7.8	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-20U	MW-20U-GW	12/17/09	30	< 0.5	< 0.5	< 0.5		4.3		
MW-20U	MW-20U-GW	2/18/10	28	< 0.5	< 0.5	< 0.5		5.1		
MW-20U	MW-20U-GW-QCFD	2/18/10	27	< 0.5	< 0.5	< 0.5		4.8		
MW-20U	MW-20U-GW	5/12/10	27	< 0.5	< 0.5	< 0.5		7.5		
MW-20U	MW-20U-GW-QCFD	5/12/10	28	< 0.5	< 0.5	< 0.5		7.5		
MW-20U	MW-20U-GW	8/5/10	26	< 0.5	< 0.5	< 0.5	16	9.5		
MW-20U	MW-20U-GW-QCFD	8/5/10	26	< 0.5	< 0.5	< 0.5		9.4	8.3	
MW-20U	MW-20U-GW	9/30/10	30	< 0.5	< 0.5	< 0.5			8.7	
MW-20U	MW-20U-GW	11/15/10	24	< 0.5	< 0.5	< 0.5	6.6	8.6		9.0
MW-20U	MW-20U-GW-QCFD	11/15/10	26	< 0.5	< 0.5	< 0.5		8.2		
MW-21U	MW-21U-GW	9/24/09	41	0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-21U	MW-21U-GW	12/14/09	40	2.0	< 0.5	< 0.5		< 1.0		
MW-21U	MW-21U-GW	2/18/10	37	1.1	< 0.5	< 0.5		< 1.0		
MW-21U	MW-21U-GW	5/12/10	9.7	< 0.5	< 0.5	< 0.5		< 1.0		
MW-21U	MW-21U-GW	8/5/10	90	1.6	0.5	< 0.5	2.5	2.6	1.2	
MW-21U	MW-21U-GW	9/30/10	97	2.4	0.8	< 0.5			< 0.5	
MW-21U	MW-21U-GW	10/22/10	87	1.9	0.5	< 0.5			0.82	0.82
MW-21U	MW-21U-GW	11/10/10	140	3.2	0.8	< 0.5		< 1.0		2.9
MW-22U	MW-22U-GW	9/24/09	12	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-22U	MW-22U-GW	12/18/09	53	1.5	< 0.5	< 0.5		< 1.0		
MW-22U MW-22U	MW-22U-GW	2/19/10	80 48	1.2 0.7	< 0.5	< 0.5		2.4		
	MW-22U-GW	5/12/10	46 75	0.7	< 0.5 < 0.5	< 0.5		7	5.4	
MW-22U	MW-22U-GW MW-22U-GW	8/5/10 10/1/10	75 53	0.9		< 0.5 < 0.5	6.3		5. <del>4</del> 4.9	
MW-22U	MW-22U-GW MW-22U-GW				< 0.5				_	
MW-22U MW-22U	MW-22U-GW	10/22/10 11/10/10	53 66	0.9 0.8	< 0.5 < 0.5	< 0.5 < 0.5		5.9	5.0 b	6.0
MW-22U	MW-22U	12/20/10	86	1.1	< 0.5	< 0.5		5.9		8.8
MW-23U	MW-23U-GW	9/25/09	20	< 0.5	< 0.5	< 0.5	12	5.8	< 0.01	
MW-23U	MW-23U-GW	12/18/09	76	<b>0.9</b>	< 0.5	< 0.5		10		
MW-23U	MW-23U-GW	2/18/10	48	< 0.5	< 0.5	< 0.5		16		
MW-23U	MW-23U-GW	5/12/10	77	0.8	< 0.5	< 0.5				
MW-23U	MW-23U-GW	8/6/10	80	1.2	< 0.5	< 0.5	14	16	12	
MW-23U	MW-23U-GW	10/1/10	49	0.7	< 0.5	< 0.5			13	
MW-23U	MW-23U-GW-QCFD	10/1/10	49	0.7	< 0.5	< 0.5			14	
MW-23U	MW-23U-GW	11/10/10	88	0.9	< 0.5	< 0.5		14		12

Well Name	Sample Name	Date Collected	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl Chloride (µg/L)	Total Cr (µg/L)	Dissolved Cr (µg/L)	Total Hex Chrome (µg/L)	Dissolved Hex Chrome (µg/L)
MW-24U	MW-24U-GW	9/24/09	26	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-24U	MW-24U-GW	12/18/09	68	1.4	< 0.5	< 0.5		< 1.0		
MW-24U	MW-24U-GW	2/19/10	89	4.6	< 0.5	< 0.5		< 1.0		
MW-24U	MW-24U-GW	5/12/10	19	3.2	< 0.5	< 0.5				
MW-24U	MW-24U-GW	8/6/10	20	1.4	< 0.5	< 0.5	1.5	< 1.0	< 0.5	
MW-24U	MW-24U-GW	10/1/10	45	1.5	< 0.5	< 0.5			< 0.5	
MW-24U	MW-24U-GW	10/22/10	41	1.7	< 0.5	< 0.5			< 0.5 b	
MW-24U	MW-24U-GW-QCFD	10/22/10	42	1.7	< 0.5	< 0.5			< 0.5	
MW-24U	MW-24U-GW	11/12/10	37	1.2	< 0.5	< 0.5	6.2	< 1.0		< 0.50
MW-24U	MW-24U	12/20/10	32	1.3	< 0.5	< 0.5				< 0.50
MW-25U	MW-25U-GW	9/23/09	1.9	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-25U	MW-25U-GW	12/17/09	5.6	< 0.5	< 0.5	< 0.5		< 1.0		
MW-25U	MW-25U-GW	2/18/10	5.1	< 0.5	< 0.5	< 0.5		< 1.0		
MW-25U	MW-25U-GW	5/12/10	5.4	< 0.5	< 0.5	< 0.5				
MW-25U	MW-25U-GW	8/5/10	4.7	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	0.13 J	
MW-25U	MW-25U-GW	11/12/10	6.1	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0		0.27 J
MW-26U	MW-26U-GW	9/25/09	0.9	< 0.5	< 0.5	< 0.5	1.1	< 1.0	< 0.01	
MW-26U	MW-26U-GW	12/15/09	< 0.5	< 0.5	< 0.5	< 0.5		< 1.0		
MW-26U	MW-26U-GW	2/18/10	0.7	< 0.5	< 0.5	< 0.5		1.1		
MW-26U	MW-26U-GW	5/12/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-26U	MW-26U-GW	8/5/10	0.6	< 0.5	< 0.5	< 0.5	2.2	1.7	1.8	
MW-26U	MW-26U-GW	11/12/10	0.9	< 0.5	< 0.5	< 0.5	3.4	2.5		2.0
MW-27U	MW-27U-GW	9/24/09	1.7	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-27U	MW-27U-GW	12/17/09	1.9	< 0.5	< 0.5	< 0.5		< 1.0		
MW-27U	MW-27U-GW	2/18/10	1.2	< 0.5	< 0.5	< 0.5		< 1.0		
MW-27U	MW-27U-GW	5/12/10	2.4	< 0.5	< 0.5	< 0.5				
MW-27U	MW-27U-GW	8/5/10	1.2	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5	
MW-27U	MW-27U-GW	11/12/10	1.6	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0		< 0.50
MW-28U	MW-28U-GW	9/24/09	1.6	< 0.5	< 0.5	< 0.5		2.5		
MW-28U	MW-28U-GW	12/17/09	0.8	< 0.5	< 0.5	< 0.5				
MW-28U	MW-28U-GW	2/19/10	0.8	< 0.5	< 0.5	< 0.5				
MW-28U	MW-28U-GW	5/12/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-28U	MW-28U-GW	8/5/10	< 0.5	< 0.5	< 0.5	< 0.5		12		
MW-28U	MW-28U-GW	11/12/10	0.6	< 0.5	< 0.5	< 0.5				
MW-29U	MW-29U-GW	9/24/09	< 0.5	< 0.5	< 0.5	< 0.5		2.3		
MW-29U	MW-29U-GW	1/8/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-29U	MW-29U-GW	2/19/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-29U	MW-29U-GW	5/13/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-29U	MW-29U-GW	8/6/10	< 0.5	< 0.5	< 0.5	< 0.5		< 1.0		
MW-29U	MW-29U-GW	11/12/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-33U	MW-33U-GW	5/13/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-33U	MW-33U-GW	8/6/10	< 0.5	< 0.5	< 0.5	< 0.5		22		
MW-33U	MW-33U-GW	11/12/10	< 0.5	< 0.5	< 0.5	< 0.5				

Well Name	Sample Name	Date Collected	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl Chloride (µg/L)	Total Cr (µg/L)	Dissolved Cr (µg/L)	Total Hex Chrome (µg/L)	Dissolved Hex Chrome (µg/L)
				Lower Zo	ne Wells			1		
GCC-02	GCC-02-GW	2/12/09	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-02	GCC-02-GW	9/22/09	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-02	GCC-02-GW	8/3/10	< 0.5	< 0.5	< 0.5	< 0.5				
IW-1L	IW-1L-GW	9/25/09	36	0.6	< 0.5	< 0.5	2.0	1.6	< 0.01	
IW-1L	IW-1L-GW-QCFD	9/25/09	36	0.5	< 0.5	< 0.5	2.8	1.6	< 0.01	
IW-1L	IW-1L-GW	12/18/09	20	< 0.5	< 0.5	< 0.5		8.6		
IW-1L	IW-1L-GW-QCFD	12/18/09	19	< 0.5	< 0.5	< 0.5		7.2		
IW-1L	IW-1L-GW	2/19/10	23	< 0.5	< 0.5	< 0.5				
IW-1L	IW-1L-GW-QCFD	2/19/10	23	< 0.5	< 0.5	< 0.5				
IW-1L	IW-1L-GW	5/13/10	34	0.6	< 0.5	< 0.5				
IW-1L	IW-1L-GW-QCFD	5/13/10	36	< 0.5	< 0.5	< 0.5				
IW-1L	IW-1L-GW-QCFD	8/6/10	13	< 0.5	< 0.5	< 0.5		9.8		
IW-1L	IW-1L	8/6/10	13	< 0.5	< 0.5	< 0.5	10	10	8.8	
IW-1L	IW-1L-GW	9/30/10	< 0.5	< 0.5	< 0.5	< 0.5			< 0.50	
IW-1L	IW-1L-GW	10/22/10	4.4	< 0.5	< 0.5	< 0.5			< 0.53 b	
IW-1L	IW-1L-GW	11/12/10	< 0.5	< 0.5	< 0.5	< 0.5	36	42		< 0.58
IW-1L	IW-1L	12/20/10	1.1	< 0.5	< 0.5	< 0.5				< 0.50
MW-13L	MW-13L-GW	9/25/09	390	5.0	2.1	< 0.5	< 1.0	< 1.0	< 0.01	
MW-13L	MW-13L-GW-QCFD	9/25/09	370	5.0	2.3	< 0.5	< 1.0	< 1.0	< 0.01	
MW-13L	MW-13L-GW	12/18/09	120	1.6	< 1.0	< 1.0				
MW-13L	MW-13L-GW-QCFD	12/18/09	120	1.8	1.0	< 0.7				
MW-13L	MW-13L-GW	2/19/10	400	4.2	1.3	< 1.0				
MW-13L	MW-13L-GW-QCFD	2/19/10	380	4.2	1.3	< 1.0				
MW-13L	MW-13L-GW	5/13/10	450	5.9	< 2.5	< 2.5				
MW-13L	MW-13L-GW-QCFD	5/13/10	410	6.1	< 2.5	< 2.5				
MW-13L	MW-13L-GW	8/6/10	230	4.8	< 2.5	< 2.5	5.5	6.7	6.0	
MW-13L	MW-13L-GW-QCFD	8/6/10	220	2.4	< 1.3	< 1.3		7.1		
MW-13L	MW-13L-GW	11/10/10	140	1.6	< 1.0	< 1.0		7.2		7.9
MW-13L	MW-13L-GW-QCFD	11/10/10	140	2.1	< 1.0	< 1.0		7.6		
MW-18B	MW-18B-GW	2/12/09	23	0.6	< 0.5	< 0.5				
MW-18B	MW-18B-GW	4/22/09	21	0.6	< 0.5	< 0.5				
MW-18B	MW-18B-GW	9/25/09	14	0.7	< 0.5	< 0.5				
MW-18B	MW-18B-GW	12/16/09	14	0.5	< 0.5	< 0.5				
MW-18B	MW-18B-GW	2/17/10	12	0.6	< 0.5	< 0.5				
MW-18B	MW-18B-GW	5/10/10	13	0.7	< 0.5	< 0.5				
MW-18B	MW-18B-GW	8/4/10	9.3	1.1	< 0.5	< 0.5				
MW-18B	MW-18B-GW	11/9/10	10	0.9	< 0.5	< 0.5				

Well Name	Sample Name	Date Collected	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl Chloride (µg/L)	Total Cr (µg/L)	Dissolved Cr (µg/L)	Total Hex Chrome (µg/L)	Dissolved Hex Chrome (µg/L)
MW-19B1	MW-19B1-GW	2/11/09	560	5.7	< 3.1	< 3.1				
MW-19B1	MW-19B1-GW	4/23/09	20	0.7	< 0.5	< 0.5				
MW-19B1	MW-19B1-GW	9/25/09	250	5.3	1.7	< 0.5				
MW-19B1	MW-19B1-GW	12/16/09	360	5.2	1.9	< 1.0				
MW-19B1	MW-19B1-GW	2/17/10	330	7.1	3.3	< 2.5				
MW-19B1	MW-19B1-GW	5/10/10	260	4.3	< 2.5	< 2.5				
MW-19B1	MW-19B1-GW	8/4/10	320	4.0	< 2	< 2				
MW-19B1	MW-19B1-GW	11/10/10	300	4.8	< 2.0	< 2.0				
MW-19B2	MW-19B2-GW	2/11/09	19	< 0.5	< 0.5	< 0.5				
MW-19B2	MW-19B2-GW	4/23/09	5.9	0.8	< 0.5	< 0.5				
MW-19B2	MW-19B2-GW	9/25/09	14	0.7	< 0.5	< 0.5				
MW-19B2	MW-19B2-GW	12/16/09	14	0.6	< 0.5	< 0.5				
MW-19B2	MW-19B2-GW	2/17/10	14	0.5	< 0.5	< 0.5				
MW-19B2	MW-19B2-GW	5/11/10	16	0.6	< 0.5	< 0.5				
MW-19B2	MW-19B2-GW	8/4/10	34	0.9	< 0.5	< 0.5				
MW-19B2	MW-19B2-GW	11/9/10	16	< 0.5	< 0.5	< 0.5				
MW-20L	MW-20L-GW	9/24/09	19	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-20L	MW-20L-GW	12/17/09	16	< 0.5	< 0.5	< 0.5		1.7		
MW-20L	MW-20L-GW	2/18/10	22	< 0.5	< 0.5	< 0.5		6.1		
MW-20L	MW-20L-GW	5/12/10	28	0.6	< 0.5	< 0.5		11		
MW-20L	MW-20L-GW	8/5/10	15	< 0.5	< 0.5	< 0.5	10	10	10	
MW-20L	MW-20L-GW	9/30/10	19	< 0.5	< 0.5	< 0.5			11	
MW-20L	MW-20L-GW	11/15/10	19	< 0.5	< 0.5	< 0.5	10	12		13
MW-21L	MW-21L-GW	9/24/09	33	< 0.5	< 0.5	< 0.5	1.2	< 1.0	< 0.01	
MW-21L	MW-21L-GW	12/15/09	5.2	< 0.5	< 0.5	< 0.5		8.8		
MW-21L	MW-21L-GW	2/18/10	38	0.7	< 0.5	< 0.5		7.5		
MW-21L	MW-21L-GW	5/12/10	54	0.9	< 0.5	< 0.5		9		
MW-21L	MW-21L-GW	8/5/10	8.2	< 0.5	< 0.5	< 0.5	9.5	9.7	8.1	
MW-21L	MW-21L-GW	9/30/10	13	< 0.5	< 0.5	< 0.5			2.3	
MW-21L	MW-21L-GW	10/22/10	15	< 0.5	< 0.5	< 0.5			9.6 b	
MW-21L	MW-21L-GW	11/10/10	12	< 0.5	< 0.5	< 0.5		8.4		9.2
MW-22L	MW-22L-GW	9/24/09	31	0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-22L	MW-22L-GW	12/18/09	15	< 0.5	< 0.5	< 0.5		2.2		
MW-22L	MW-22L-GW	2/19/10	7.8	< 0.5	< 0.5	< 0.5		2.9		
MW-22L	MW-22L-GW	5/12/10	25	0.7	< 0.5	< 0.5				
MW-22L	MW-22L-GW	8/5/10	20	< 0.5	< 0.5	< 0.5	7.5	7.4	7.2	
MW-22L	MW-22L-GW	9/30/10	60	1.3	< 0.5	< 0.5			5.9	
MW-22L	MW-22L-GW	10/22/10	21	0.5	< 0.5	< 0.5			11 b	
MW-22L	MW-22L-GW	11/10/10	19	0.5	< 0.5	< 0.5		13		14
MW-22L	MW-22L	12/20/10	< 0.5	< 0.5	< 0.5	< 0.5				35

Well Name	Sample Name	Date Collected	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl Chloride (µg/L)	Total Cr (µg/L)	Dissolved Cr (µg/L)	Total Hex Chrome (µg/L)	Dissolved Hex Chrome (µg/L)
MW-23L	MW-23L-GW	9/25/09	17	< 0.5	< 0.5	< 0.5	3.7	< 1.0	< 0.01	
MW-23L	MW-23L-GW	12/18/09	8.7	< 0.5	< 0.5	< 0.5		4.6		
MW-23L	MW-23L-GW	2/19/10	3.3	< 0.5	< 0.5	< 0.5		7.2		
MW-23L	MW-23L-GW	5/13/10	160	3.1	1.2	< 0.5				
MW-23L	MW-23L-GW	8/6/10	210	3.4	1.2	< 0.5	8.9	4.9	3.6	
MW-23L	MW-23L-GW	10/1/10	170	2.5	< 2.0	< 2.0			2.1	
MW-23L	MW-23L-GW	10/22/10	150	2.5	< 1.3	< 1.3			12 b	
MW-23L	MW-23L-GW	11/10/10	180	2.8	< 1.0	< 1.0		< 1.0		2.0
MW-24L	MW-24L-GW	9/25/09	8.7	< 0.5	< 0.5	< 0.5	1.3	< 1.0	< 0.01	
MW-24L	MW-24L-GW	12/18/09	14	< 0.5	< 0.5	< 0.5		2.2		
MW-24L	MW-24L-GW	2/19/10	15	< 0.5	< 0.5	< 0.5		3.7		
MW-24L	MW-24L-GW	5/12/10	6.6	< 0.5	< 0.5	< 0.5				
MW-24L	MW-24L-GW	8/6/10	16	0.6	< 0.5	< 0.5	6.1	7.5	5.7	
MW-24L	MW-24L-GW	10/1/10	18	0.9	< 0.5	< 0.5			4.4	
MW-24L	MW-24L-GW	10/22/10	10	< 0.5	< 0.5	< 0.5			< 0.53 b	
MW-24L	MW-24L-GW	11/12/10	< 0.5	< 0.5	< 0.5	< 0.5	680	1,000		14
MW-24L	MW-24L	12/20/10	< 0.5	< 0.5	< 0.5	< 0.5				390
MW-25L	MW-25L-GW	9/24/09	0.9	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-25L	MW-25L-GW	12/17/09	0.9	< 0.5	< 0.5	< 0.5		4.5		
MW-25L	MW-25L-GW	2/18/10	1.0	< 0.5	< 0.5	< 0.5		4.6		
MW-25L	MW-25L-GW	5/12/10	1.8	< 0.5	< 0.5	< 0.5				
MW-25L	MW-25L-GW	8/5/10	1.3	< 0.5	< 0.5	< 0.5	5.6	4.5	2.2	
MW-25L	MW-25L-GW	11/12/10	1.0	< 0.5	< 0.5	< 0.5	5.1	5.2		5.2
MW-26L	MW-26L-GW	9/24/09	2.8	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-26L	MW-26L-GW	12/14/09	5.3	< 0.5	< 0.5	< 0.5		2.3		
MW-26L	MW-26L-GW	2/18/10	5.5	< 0.5	< 0.5	< 0.5		6		
MW-26L	MW-26L-GW	5/12/10	5.7	< 0.5	< 0.5	< 0.5				
MW-26L	MW-26L-GW	8/5/10	5.0	< 0.5	< 0.5	< 0.5	9.5	9.7	7.2	
MW-26L	MW-26L-GW	11/12/10	4.2	< 0.5	< 0.5	< 0.5	9.9	11		9.9
MW-27L	MW-27L-GW	9/24/09	40	0.6	< 0.5	< 0.5	< 1.0	< 1.0	< 0.01	
MW-27L	MW-27L-GW	12/17/09	11	2.0	1.6	< 0.5		< 1.0		
MW-27L	MW-27L-GW	2/18/10	14	2.2	2.3	< 0.5		< 1.0		
MW-27L	MW-27L-GW	5/12/10	48	1.4	< 0.5	< 0.5				
MW-27L	MW-27L-GW	8/5/10	29	1.6	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5	
MW-27L	MW-27L-GW	11/12/10	16	1.3	< 0.5	< 0.5	< 1.0	< 1.0		< 0.50
MW-28L	MW-28L-GW	9/24/09	12	< 0.5	< 0.5	< 0.5		< 1.0		
MW-28L	MW-28L-GW	12/17/09	5.4	< 0.5	< 0.5	< 0.5				
MW-28L	MW-28L-GW	2/19/10	160	1.9	8.0	< 0.5				
MW-28L	MW-28L-GW	5/12/10	1.2	< 0.5	< 0.5	< 0.5				
MW-28L	MW-28L-GW	8/5/10	37	< 0.5	< 0.5	< 0.5		14		
MW-28L	MW-28L-GW	11/10/10	55	0.7	< 0.5	< 0.5				

Well Name	Sample Name	Date Collected	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl Chloride (µg/L)	Total Cr (µg/L)	Dissolved Cr (µg/L)	Total Hex Chrome (µg/L)	Dissolved Hex Chrome (µg/L)
MW-29L	MW-29L-GW	9/24/09	42	5.0	0.9	< 0.5		< 1.0		
MW-29L	MW-29L-GW	1/8/10	94	5.1	0.9	< 0.5				
MW-29L	MW-29L-GW	2/19/10	100	4.3	0.7	< 0.5				
MW-29L	MW-29L-GW	5/13/10	26	4.0	1.1	< 0.5				
MW-29L	MW-29L-GW	8/6/10	49	4.8	1.5	< 0.5		5.2		
MW-29L	MW-29L-GW	11/10/10	84	4.0	1.4	< 0.5				
MW-30L	MW-30L-GW	5/13/10	4.7	< 0.5	< 0.5	< 0.5				
MW-30L	MW-30L-GW	8/6/10	3.8	< 0.5	< 0.5	< 0.5		< 1.0		
MW-30L	MW-30L-GW	11/12/10	6.8	< 0.5	< 0.5	< 0.5				
MW-31L	MW-31L-GW	5/13/10	2	< 0.5	< 0.5	< 0.5				
MW-31L	MW-31L-GW	8/6/10	2.5	< 0.5	< 0.5	< 0.5		3.9		
MW-31L	MW-31L-GW	11/12/10	7.7	< 0.5	< 0.5	< 0.5				
MW-32L	MW-32L-GW	5/13/10	2.5	< 0.5	< 0.5	< 0.5				
MW-32L	MW-32L-GW	8/6/10	9.3	< 0.5	< 0.5	< 0.5		15		
MW-32L	MW-32L-GW	11/12/10	7.2	< 0.5	< 0.5	< 0.5				
MW-33L	MW-33L-GW	5/13/10	0.7	< 0.5	< 0.5	< 0.5				
MW-33L	MW-33L-GW-QCFD	5/13/10	0.6	< 0.5	< 0.5	< 0.5				
MW-33L	MW-33L-GW	8/6/10	1.8	< 0.5	< 0.5	< 0.5		5.1		
MW-33L	MW-33L-GW-QCFD	8/6/10	1.8	< 0.5	< 0.5	< 0.5		4.5		
MW-33L	MW-33L-GW	11/12/10	1.3	< 0.5	< 0.5	< 0.5				
MW-33L	MW-33L-GW-QCFD	11/12/10	1	< 0.5	< 0.5	< 0.5				
			L2 Lov	ver Zone aı	nd Deeper	Wells				
GCC-03	GCC-03-GW	2/9/09	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-03	GCC-03-GW	9/22/09	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-03	GCC-03-GW	8/3/10	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-04	GCC-04-GW	2/9/09	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-04	GCC-04-GW	9/22/09	< 0.5	< 0.5	< 0.5	< 0.5				
GCC-04	GCC-04-GW	8/3/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18C	MW-18C-GW	2/12/09	54	5.5	3.2	< 0.5				
MW-18C	MW-18C-GW	4/22/09	44	5.3	3.4	< 0.5				
MW-18C	MW-18C-GW	9/25/09	32	5.3	3.4	< 0.5				
MW-18C	MW-18C-GW	12/16/09	36	3.6	2.7	< 0.5				
MW-18C	MW-18C-GW	2/17/10	28	4.2	3.5	< 0.5				
MW-18C	MW-18C-GW	5/10/10	30	4.5	2.8	< 0.5				
MW-18C	MW-18C-GW	8/4/10	29	4.5	2.2	< 0.5				
MW-18C	MW-18C-GW	11/9/10	35	4.6	2.4	< 0.5				
MW-18D	MW-18D-GW	2/12/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18D	MW-18D-GW	4/23/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18D	MW-18D-GW	9/21/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18D	MW-18D-GW	12/16/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18D	MW-18D-GW	2/17/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18D	MW-18D-GW	5/10/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-18D	MW-18D-GW	8/4/10	1.8	0.9	< 0.5	< 0.5				
MW-18D	MW-18D-GW	11/8/10	< 0.5	< 0.5	< 0.5	< 0.5				

Well Name	Sample Name	Date Collected	PCE (µg/L)	TCE (µg/L)	cis-1,2- DCE (µg/L)	Vinyl Chloride (µg/L)	Total Cr (µg/L)	Dissolved Cr (µg/L)	Total Hex Chrome (µg/L)	Dissolved Hex Chrome (µg/L)
MW-19C	MW-19C-GW	2/12/09	7.4	0.7	< 0.5	< 0.5				
MW-19C	MW-19C-GW	4/23/09	6.0	0.7	< 0.5	< 0.5				
MW-19C	MW-19C-GW	9/25/09	4.9	0.7	< 0.5	< 0.5				
MW-19C	MW-19C-GW	12/16/09	4.9	< 0.5	< 0.5	< 0.5				
MW-19C	MW-19C-GW	2/17/10	4.5	0.6	< 0.5	< 0.5				
MW-19C	MW-19C-GW	5/11/10	4.8	0.7	< 0.5	< 0.5				
MW-19C	MW-19C-GW	8/4/10	15	1.2	< 0.5	< 0.5				
MW-19C	MW-19C-GW	11/10/10	3.9	0.6	< 0.5	< 0.5				
MW-19D	MW-19D-GW	2/11/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-19D	MW-19D-GW	4/23/09	6.1	< 0.5	< 0.5	< 0.5				
MW-19D	MW-19D-GW	9/25/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-19D	MW-19D-GW	12/16/09	< 0.5	< 0.5	< 0.5	< 0.5				
MW-19D	MW-19D-GW	2/17/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-19D	MW-19D-GW	5/11/10	< 0.5	< 0.5	< 0.5	< 0.5				
MW-19D	MW-19D-GW	8/4/10	10	0.7	< 0.5	< 0.5				
MW-19D	MW-19D-GW	11/10/10	1.2	< 1.0	< 1.0	< 1.0				
MW-28L2	MW-28L2-GW	12/17/09	15	0.9	< 0.5	< 0.5		< 1.0		
MW-28L2	MW-28L2-GW	2/19/10	30	1.3	< 0.5	< 0.5				
MW-28L2	MW-28L2-GW	5/12/10	11	0.8	< 0.5	< 0.5				
MW-28L2	MW-28L2-GW	8/5/10	8.5	0.8	< 0.5	< 0.5		5.7		
MW-28L2	MW-28L2-GW	11/12/10	28	1.2	< 0.5	< 0.5				
MW-29L2	MW-29L2-GW	12/17/09	2.5	0.7	0.5	< 0.5		< 1.0		
MW-29L2	MW-29L2-GW	2/19/10	2.4	0.7	< 0.5	< 0.5				
MW-29L2	MW-29L2-GW	5/13/10	5.8	1	< 0.5	< 0.5				
MW-29L2	MW-29L2-GW	8/6/10	4.5	0.7	< 0.5	< 0.5		< 1.0		
MW-29L2	MW-29L2-GW	11/12/10	2.9	0.9	< 0.5	< 0.5				
MW-30L2	MW-30L2-GW	5/13/10	1.4	< 0.5	< 0.5	< 0.5				
MW-30L2	MW-30L2-GW	8/6/10	3.8	< 0.5	< 0.5	< 0.5		3.1		
MW-30L2	MW-30L2-GW	11/12/10	4.5	< 0.5	< 0.5	< 0.5				
MW-31L2	MW-31L2-GW	5/13/10	28	1.3	1	< 0.5				
MW-31L2	MW-31L2-GW	8/6/10	15	0.8	0.6	< 0.5		13		
MW-31L2	MW-31L2-GW	11/12/10	37	2.2	1.4	< 0.5				
MW-32L2	MW-32L2-GW	5/13/10	9.9	1.4	0.5	< 0.5				
MW-32L2	MW-32L2-GW	8/6/10	21	2.8	1	< 0.5		8.6		
MW-32L2	MW-32L2-GW	11/12/10	22	2.7	1.0	< 0.5				

#### **Notes**

Detected concentrations are shown in bold.

Only PCE and daughter products (TCE, cis-1,2-DCE and vinyl chloride), chromium and hexavalent chromium are shown.

Volatile organic compounds (VOCs) analyzed using EPA Method 8260B.

 $Chromium \ (total \ and \ dissolved) \ analyzed \ using \ EPA \ Method \ 6020, \ EPA \ Method \ 6010B, \ or \ SW6020.$ 

Hexavalent chromium analyzed using EPA Method 7199 or 7196.

μg/L = micrograms per liter.

PCE = tetrachloroethene; TCE = trichloroethene; DCE = dichloroethene; Cr = chromium; hex chrome = hexavalent chromium.

-- = not available or not analyzed.

< 0.5 = constituent not detected at or above the indicated laboratory reporting limit.

### Table 3 **List of Potential ARARs and TBCs** Non-Processing Area, East Mill Former Gaylord Container Corporation Facility Antioch, California

Standard, Requirement, Criteria, Limitation	Citation	Description	Type of ARARs
<u>FEDERAL</u>			
Resource Conservation and Recovery Act	40 CFR Part 261	Establishes criteria to determine whether solid waste exhibits characteristics that would qualify as a regulated hazardous waste.	Chemical/Action
(RCRA)	40 CFR 263	Standards applicable to transporters of hazardous waste.	Chemical/Action
Toxic Substances Control Act (TSCA)	15 USC 2602 and 2605(e), 40 CFR 761.60, 761.61, 761.65(c)(9), 761.75	Regulations that establish the appropriate characterization, cleanup, and disposal requirements for polychlorinated biphenyls (PCBs).	Chemical/Action
Clean Water Act (CWA)	33 USC 1251-1376 40 CFR 100-149	Regulations requiring development and implementation of a storm water pollution prevention plan.	Action
Clean Air Act (CAA)	42 USC 7401-7642	Emission Standards from stationary and mobile sources.	Chemical
Occupational Health and Safety (OSHA)	29 CFR 1910.120	Establishes requirements for health and safety training.	Action
Risk Assessment Guidance for Superfund (RAGS)	USEPA, 1989, 1997, 2005	Guidance and framework to assess human and ecological risks.	TBC
E.S. EPA Region 9 Regional Screening Levels (RSLs)	USEPA Region 9, 2009	Risk-based concentrations that are intended to assist risk assessors and others in initial screening-level evaluations of environmental measurements.	TBC
STATE AND LOCAL			
Title 22, California Hazardous Waste Control Act of 1972	seq.	Establishes criteria for determining waste classification for the purposes of transportation and disposal of wastes.	Chemical/Action
		Establishes standards applicable to generators of hazardous waste.	Action
	22 CCR 67391.1	Identifies criteria for establishing a land covenant imposing appropriate limitations on land use.	Action
	22 CCR Chapter 13	Governs transportation of hazardous materials.	Action
	22 CCR Chapter 18	Identifies hazardous waste restricted from land disposal unless specific treatment standards are met.	Chemical/Action
Basin Plan	Central Valley RWQCB	Establishes beneficial uses and water quality objectives (WQO).	Chemical/Action
Ambient Air Quality Standards	H&S Sec. 39000- 44071	Establishes standards for emissions of chemical vapors and dust.	Chemical

## Table 3 List of Potential ARARs and TBCs Non-Processing Area, East Mill Former Gaylord Container Corporation Facility Antioch, California

Standard, Requirement,	Citation	Description	Type of ARARs
Emission Standard	BAAQMD Regulations 6 and 11	Establishes emission standards and notification requirements. Regulation 6 addresses particulate matter and Regulation 11 addresses lead.	Chemical/Action
Manifest System, Record-Keeping, Reporting and Transportation of Hazardous Waste	22 CCR Chapter 13	Governs transportation of hazardous materials.	Action
State PCB Requirements California Site	22 CCR 66261.113 H&S Chapter 6.65,	Establishes standards for disposal of PCBs.  Establishes the Site Designation process and	Chemical/Action
Designation Process	Sec. 25260-25268	Administrative Agency responsibilities.	
California Hazardous Waste Control	H&S Chapter 6.5, Sec. 25100- 25250.26	Establishes hazardous waste control measures.	Action
California Hazardous Substances Account Act	H&S Chapter 6.8, Sec 25300- 25395.15	Establishes site mitigation and cost recovery programs.	Action
Voluntary Cleanup Agreement	Docket No. HSA-A 03/04-084	Establishes requirements for investigation and site remediation.	Action
California Environmental Quality Act (CEQA)		Mandates environmental impact review of projects approved by governmental agencies.	Action
Discharges of Hazardous Waste to Land	Title 23, CCR, Division 3, Ch. 15	Applies to discharge of waste.	Action
Stockpiling Requirements of Contaminated Soil	H&S Sec. 25123.3(a)(20)	Establishes standards for stockpiling of non-RCRA contaminated soil.	Location
OSHA	8 CCR GISO 5192	Establishes worker health and safety requirements.	Action
Contra Cost County (CCC) Grading Permit Requirements and Procedures	Title 7, Division 716	Establishes requirements for excavation and grading.	Location/Action
California Human Health Screening Levels (CHHSLs)	CalEPA, 2005	Establishes screening levels for select chemical constituents in soil, soil gas, and indoor air.	TBC
CCC Screening Levels for Total Petroleum Hydrocarbons (TPH)	Not published	Establishes an informal screening level for TPH.	TBC

### Table 3 List of Potential ARARs and TBCs Non-Processing Area, East Mill Former Gaylord Container Corporation Facility Antioch, California

Standard, Requirement, Criteria, Limitation	Citation	Description	Type of ARARs
Environmental Screening Levels (ESLs)	RWQCB, San Francisco Bay Region, May 2008	Establishes screening levels intended to help expedite the identification of potential environmental concerns at site where contamination has been identified, and expedite the evaluation regarding the need for possible cleanup.	TBC
State Water Resource Control Board, Resolution No. 92-49	Resolution No. 92- 49, 1996	Requires clean up of groundwater to promote attainment of either background water quality, or if background levels cannot be restored, the best water quality which is reasonable and complies with the Basin Plan.	Action
General Order No. R5-2008-0149	RWQCB, Central Valley Region, September 2008	Coverage under the General Order is required prior to use of amendments.	Action

#### Notes:

ARARs = Applicable or Relevant and Appropriate Requirements.

TBC = "To Be Considered".

BAAQMD = Bay Area Air Quality Management District

CalEPA = California Environmental Protection Agency

CCR = California Code of Regulation

CFR = Code of Federal Regulation

GISO = General Industry Safety Orders

H&S = California Health and Safety Code

RWQCB = California Regional Water Quality Control Board

USC = United States Code

US EPA = U.S. Environmental Protection Agency

### Table 4 Cost Comparison of Removal Action Alternatives Non-Processing Area, East Mill Former Gaylord Container Corporation Facility Antioch, California

	Estimated Cost				
Task		Alternative 1	Alternative 2	Alternative 3	
		No Action	ISCO	ERD	
CAPITAL (DIRECT AND IND	IRECT) CC	STS			
Notice of Intent					
	Subtotal	\$0	\$20,000	\$20,000	
Well Installation and Development					
Pre-field activities (well permits, utility clearance, concrete coring)					
Install, develop & survey 4 new lower zone groundwater monitoring wells					
	Subtotal	\$0	\$85,000	\$85,000	
Investigation Derived Waste (IDW) Disposal					
Disposal of soil cuttings & wastewater from well installation and development					
	Subtotal	\$0	\$20,000	\$20,000	
Baseline Monitoring					
Amendment analysis					
Baseline groundwater monitoring (includes 4 new wells and 18 existing wells)					
Samples will be only collected for constituents not previously analyzed.					
	Subtotal	\$0	\$20,000	\$25,000	
Removal Action Implementation					
Field oversight of removal action implementation			\$45,000	\$75,000	
15,000 lbs of 40% sodium permanganate			\$45,000		
Blending of 15,000 lbs of 40% permanganate to 3% with de-ionized water			\$15,000		
Direct-push injection subcontractor (11 days at 350 feet/day and 10 gpm)			\$70,000	Ф <b>7</b> 0.000	
8,160 lbs of HRC® substrate & 1,100 lbs of HRC® primer				\$70,000	
Direct-push injection subcontractor allowance (17 days at 250 feet/day)				\$105,000	
133 liters of BDI for bio-augmentation Direct-push injection subcontractor allowance (6 days at 350 feet/day)				\$25,000 \$40,000	
Delivery to site and storage			\$20,000	\$40,000 \$15,000	
Delivery to site and storage	Subtotal	\$0	\$20,000 \$195,000	\$330,000	
TOTAL CARI		·			
TOTAL CAPI		\$0	\$340,000	\$480,000	
POST-REMOVAL SITE CONTRO	OL (PRSC)	COSIS		Т	
Post Removal Action Implementation Monitoring			<b>#</b> CO 222	Ф <b>7</b> Е 000	
Quarterly post-injection groundwater monitoring (22 wells) for Year 1			\$60,000	\$75,000	
Quarterly reporting for Year 1			\$60,000	\$60,000	
NPV of annual (\$11,000) post-injection monitoring (7 wells) for Years 2-10 NPV of annual (\$12,000) post-injection monitoring (7 wells) for Years 2-10			\$80,000	\$85,000	
NPV of annual (\$12,000) post-injection monitoring (7 wells) for Years 2-10  NPV of annual (\$15,000) reporting for Years 2-10			\$105,000	\$85,000 \$105,000	
	SC COCT	to.			
TOTAL PF	\$0	\$305,000	\$325,000		
TOTAL ESTIMATI	ED COST	\$0	\$645,000	\$805,000	

#### Notes:

- \* The estimated cost is a preliminary engineer's estimate, which is based on prior experience, published cost data, and other similar work, and is intended to have an estimated accuracy of +50% to -30%. Notice of intent, well installation and development, IDW disposal, groundwater monitoring, reporting and removal action implementation costs are estimates. Actual project costs will be based on final injection quantity and scope, treatment areas, monitoring schedule, contractor bids and site conditions encountered during removal action implementation.
- \* ISCO analytical suite includes volatile organic compounds (VOCs), sodium (total & dissolved), manganese (dissolved), chromium (total and dissolved), hexavalent chromium (dissolved), chemical oxygen demand (COD), total metals (copper, iron & lead), dissolved metals (arsenic), and total dissolved solids (TDS).
- \* ERD analytical suite includes volatile organic compounds (VOCs), total organic carbon (TOC), total metals (copper, iron & lead), dissolved metals (arsenic), sulfate, nitrate, ferrous iron, methane, ethane, ethene, metabolic acids (lactic, pyruvic, acetic, propionic and butyric) and total dissolved solids (TDS).

ISCO = in-situ chemical oxidation; ERD = enhanced reductive dechlorination.

 $HRC @= {\tt hydrogen \ release \ compound;} \quad BDI = Bio-Dechlor \ Inoculum; \quad lbs = pounds; \quad gpm = gallons \ per \ minute.$ 

NPV = net present value, where: P/A = 7.1078, and interest rate = 5% (P = present value; A = annual cost).

### Table 5 Comparison of Groundwater Removal Action Alternatives Non-Processing Area, East Mill Former Gaylord Container Corporation Facility Antioch, California

Evaluation Criteria	Alternative 1 No Action	Alternative 2 ISCO using Permanganate	Alternative 3 In-Situ Bioremediation using HRC®						
EFFECTIVENESS									
Overall Protection of Human Health and the Environment	No increased protection of human health or the environment. PCE mass would not be addressed.	Increased protection of human health and the environment by reducing PCE mass to less toxic end products (water, carbon dioxoide, chloride and manganese dioxide).	Increased protection of human health and the environment by reducing PCE mass to less toxic end products (ethene and/or ethane gas).						
Compliance with ARARs	Not expected to comply with ARARs.	Expected to comply with ARARs.	Expected to comply with ARARs.						
	None. No monitoring to manage the risk remaining due to PCE in groundwater.	Permanent reduction of PCE mass through chemical oxidation. Potential for rebound due to matrix diffusion. Groundwater monitoring will monitor effectiveness following removal action.	Permanent reduction of PCE mass through reductive dechlorination. Potential for rebound due to matrix diffusion. Groundwater monitoring will monitor effectiveness following removal action.						
and Volume through	No treatment and no reduction of PCE toxicity, mobility or volume.	PCE mass is treated directly, thus reducing toxicity, mobility and volume. Rapid transformation of PCE into less toxic end products. Potential transformation of trivalent chromium to more toxic hexavalent chromium (pilot study results indicate this may be short-termed).	Accelerated degradation of PCE mass, thus reducing toxicity, mobility and volume. Complete reduction to less toxic end products takes some time (2-5 years). Potential accumulation of more toxic vinyl chloride.						
Short-Term Effectiveness	No increased impacts to site worker or the community; but does not reduce risks to human health or the environment following implementation.	Permanganate is a strong oxidizer (must avoid eye and skin contact). Potential risks to the community during transportation. Potential risks to site workers during material handling, injection activities and well installation activities (potential exposure to hazardous soils, groundwater or fugitive dusts). Risks to site workers could be mitigated using PPE and engineering controls.	HRC® is a food grade material. No risk to the community during implementation. Potential risks to site workers during injection activities (must heat HRC® prior to injection) and well installation activities (potential exposure to hazardous soils, groundwater or fugitive dusts). Risks to site workers could be mitigated using PPE and engineering controls.						

### Table 5 Comparison of Groundwater Removal Action Alternatives Non-Processing Area, East Mill Former Gaylord Container Corporation Facility Antioch, California

Fuelvetien Criterie	Alternative 1	Alternative 2	Alternative 3 In-Situ Bioremediation using HRC®						
Evaluation Criteria	No Action	ISCO using Permanganate							
IMPLEMENTABILITY									
Technical Implementability	Readily implementable.	Well-proven and readily implementable technology for treating PCE-impacted groundwater. Prior pilot study conducted at the site. Expected to penetrate the finegrained unit, lowering the potential for rebound associated with matrix diffusion.	Well-proven and readily implementable technology for treating PCE-impacted groundwater. No prior pilot study conducte at the site. Ability to address rebound associated with matrix diffusion is unknown						
Administrative Feasibility	Adminstrative feasible. There is nothing to coordinate and no permits needed.	Would require obtaining coverage under the RWQCB's Genreal Order. Also would require drilling permit for direct-push injection and groundwater monitoring well installation.	Would require obtaining coverage under the RWQCB's General Order. Also would require drilling permit for direct-push injection and groundwater monitoring well installation.						
Availability of Necessary Services and Materials	All services and materials are available as there is nothing to implement.	Standard direct-push injection and material handling methods exist for permanganate. Readily available contractors with the necessary equipment and specialists.	Standard direct-push injection and material handling methods exist for HRC®. Readily available contractors with the necessary equipment and specialists.						
State and Community Acceptance.	Likely unobtainable because "no action" would no meet effectiveness criterion.	State and community acceptance is anticipated to be obtainable.	State and community acceptance is anticipated to be obtainable.						
COST									
Capital Cost	\$0	\$340,000	\$480,000						
PRSC	\$0	\$305,000	\$325,000						
Total Cost	\$0	\$645,000	\$805,000						

#### Notes:

ARAR = Applicable or relevant and appropriate requirements.

General Order = RWQCB General Order No. R5-2008-0149.

ISCO = in-situ chemical oxidation.

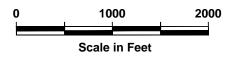
PRSC = post-removal site control; includes groundwater monitoring and reporting costs for 10 years.

PPE = personal protective equipment.

RWQCB = Central Valley Regional Water Quality Control Board.

### **ILLUSTRATIONS**





Aerial photograph: Google Earth, March 2008



Site Vicinity Map Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation - East Mill Antioch, California

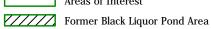
PLATE

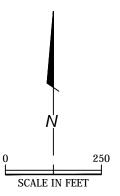
1

### Explanation

Approximate Property Boundary

Areas of Interest





Imagery Date: June 8, 2009

Source: Towill Surveying, Mapping and GIS Services

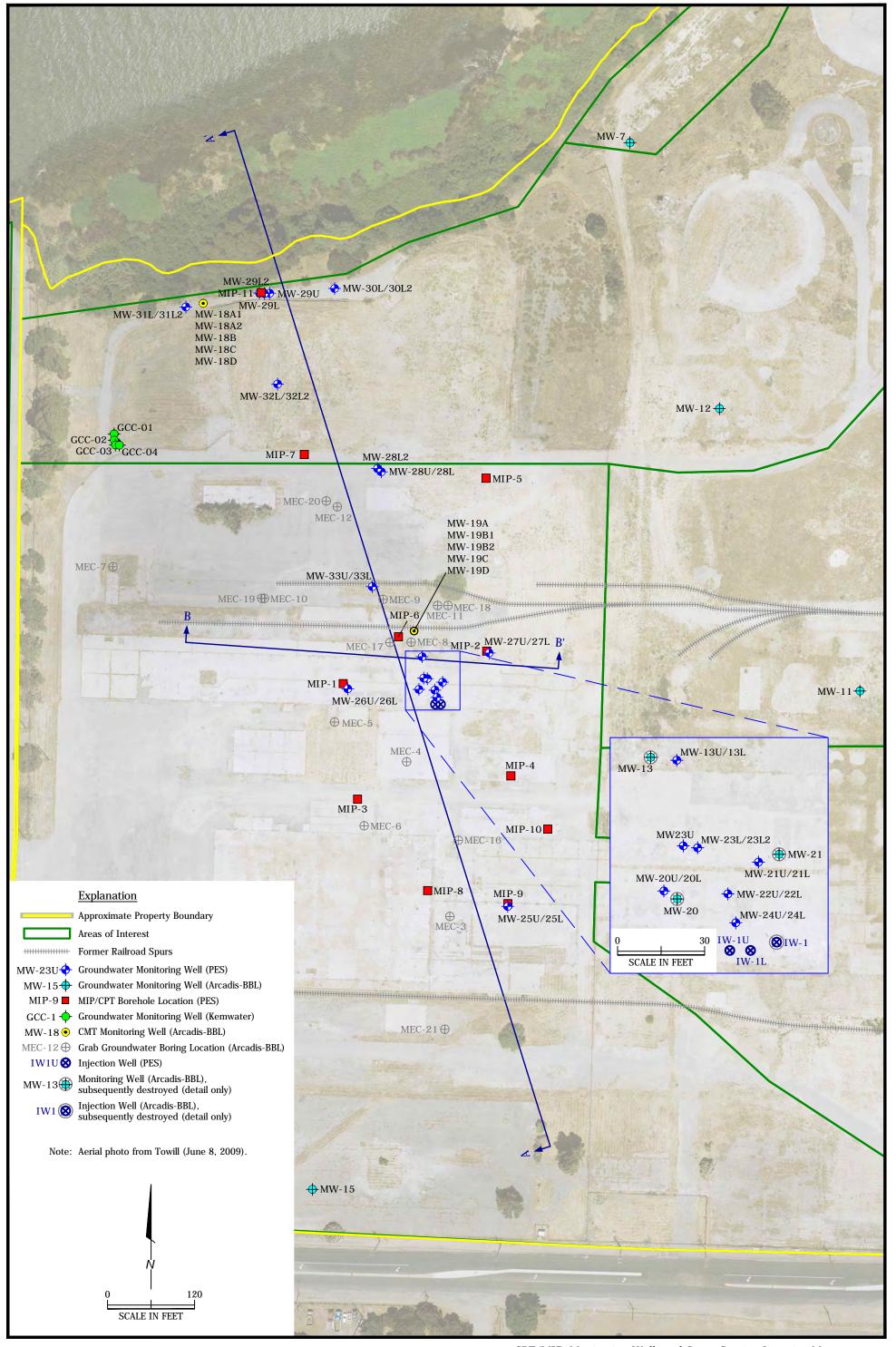






Site Plan Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation - East Mill Antioch, California

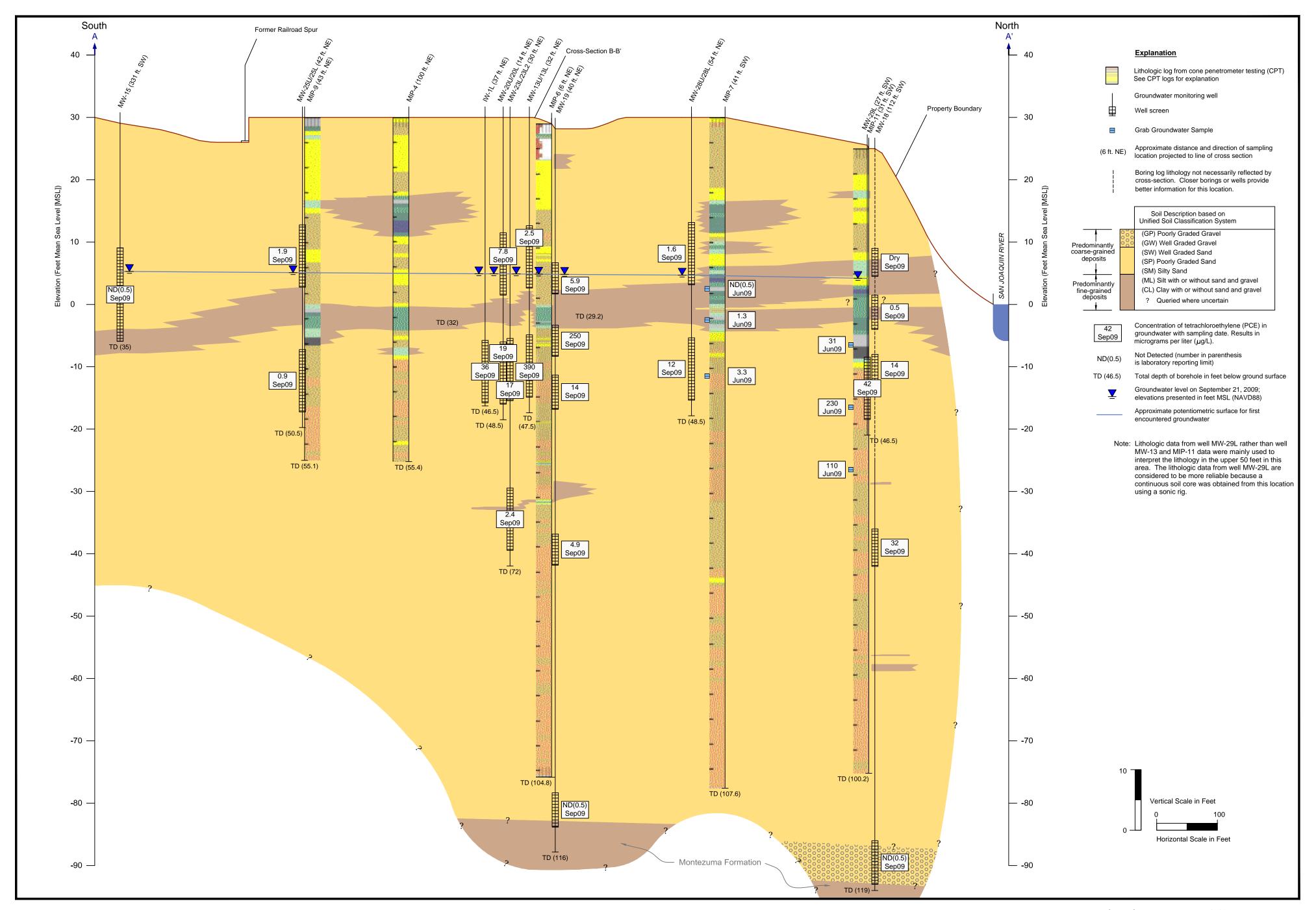
PLATE



H - 430



CPT/MIP, Monitoring Well, and Cross-Section Location Map Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation Facility - East Mill Antioch, California





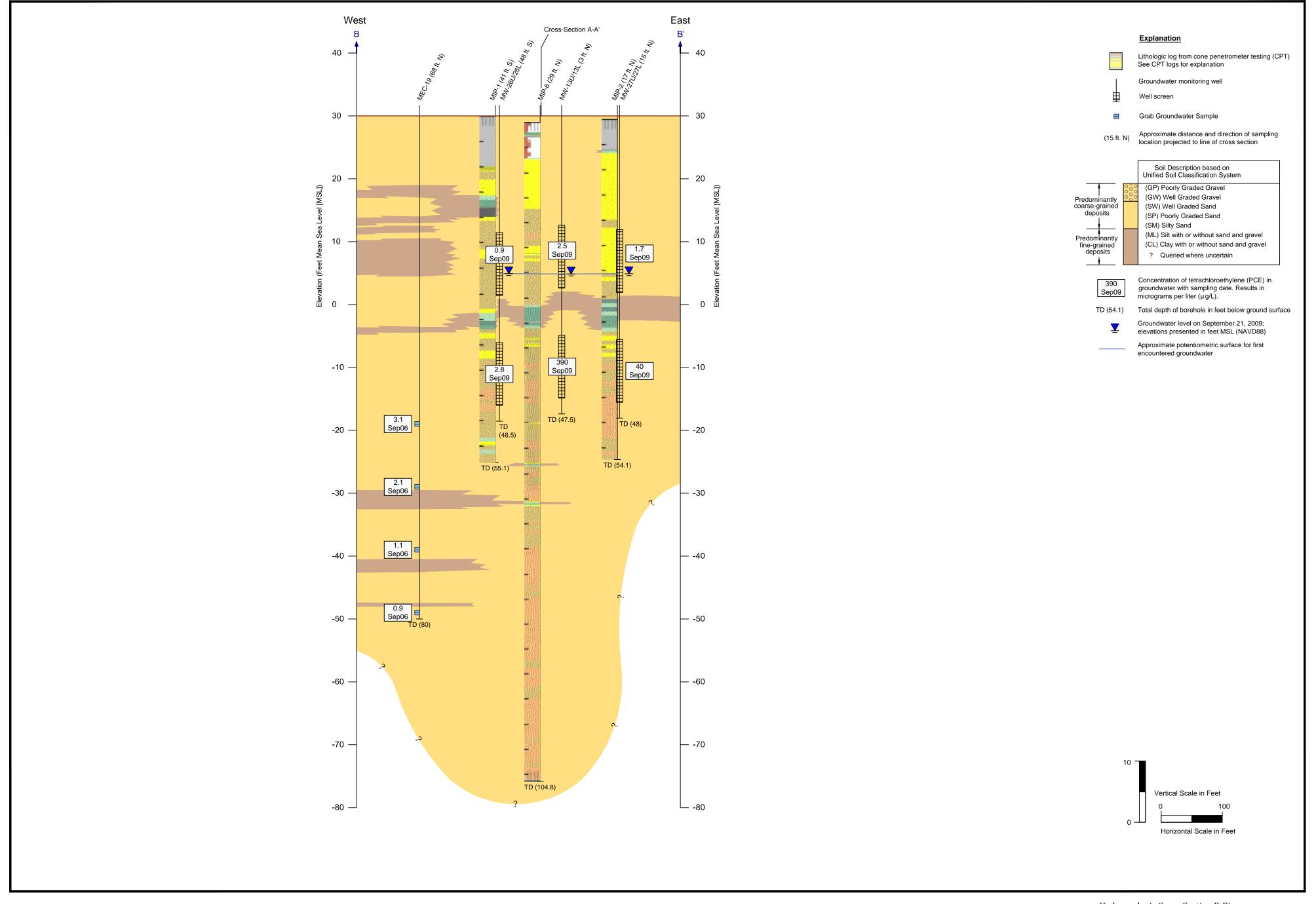
Hydrogeologic Cross-Section A-A'
Removal Action Workplan, PCE Groundwater Plume
Former Gaylord Container Corporation - East Mill
Antioch, California

10/11 DATE

1178.001.03.081 117800103081\_4-5

JOB NUMBER DRAWING NUMBER

SEG



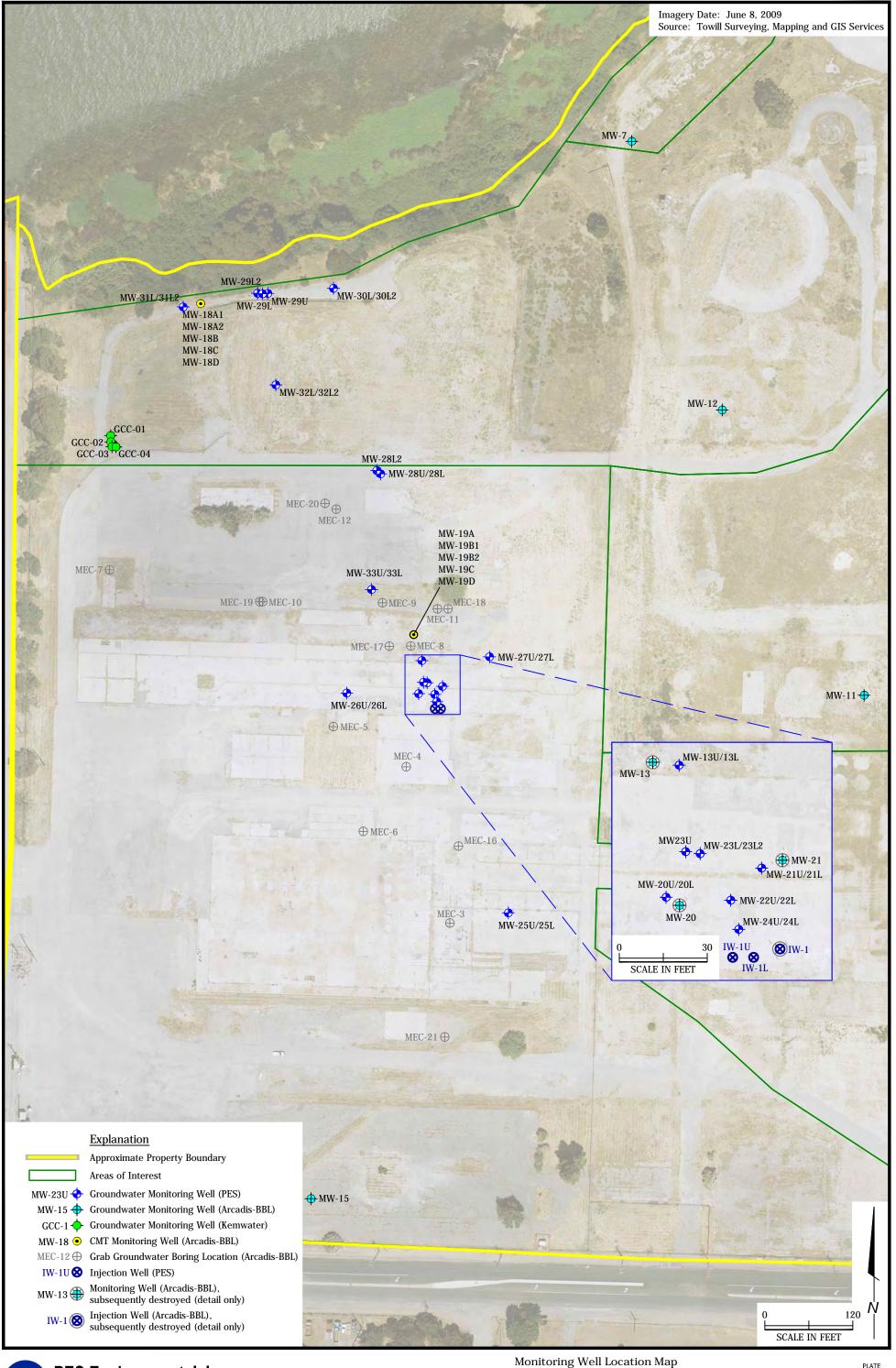
PES Environmental, Inc.
Engineering & Environmental Services

SEG

Hydrogeologic Cross-Section B-B' Removal Action Workplan, PCE Groundwater Plume PLATE Former Gaylord Container Corporation - East Mill Antioch, California

117800103081\_4-5 1178.001.03.081 JOB NUMBER DRAWING NUMBER

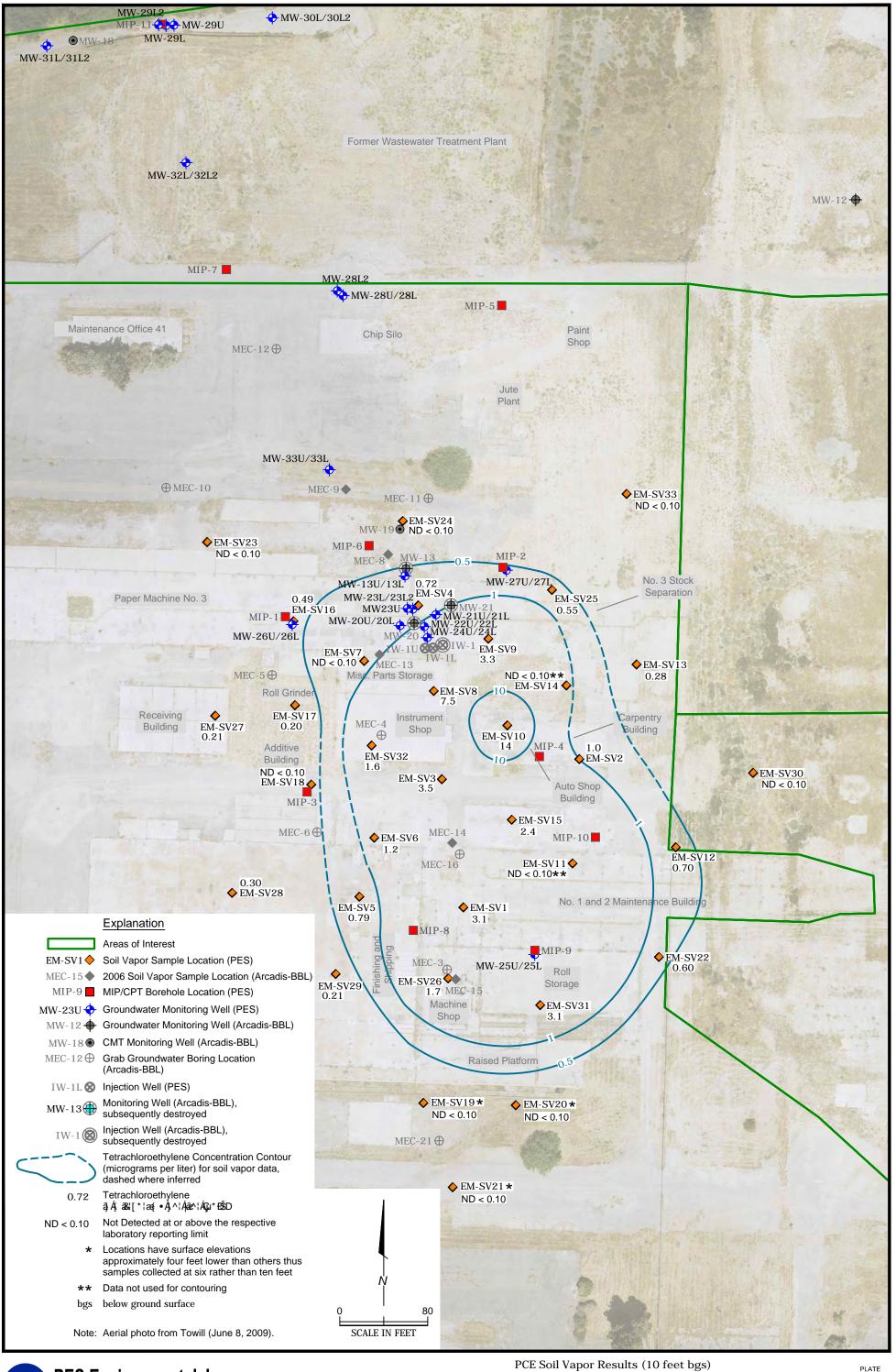
10/11 DATE





Monitoring Well Location Map Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation - East Mill Antioch, California

PLATE

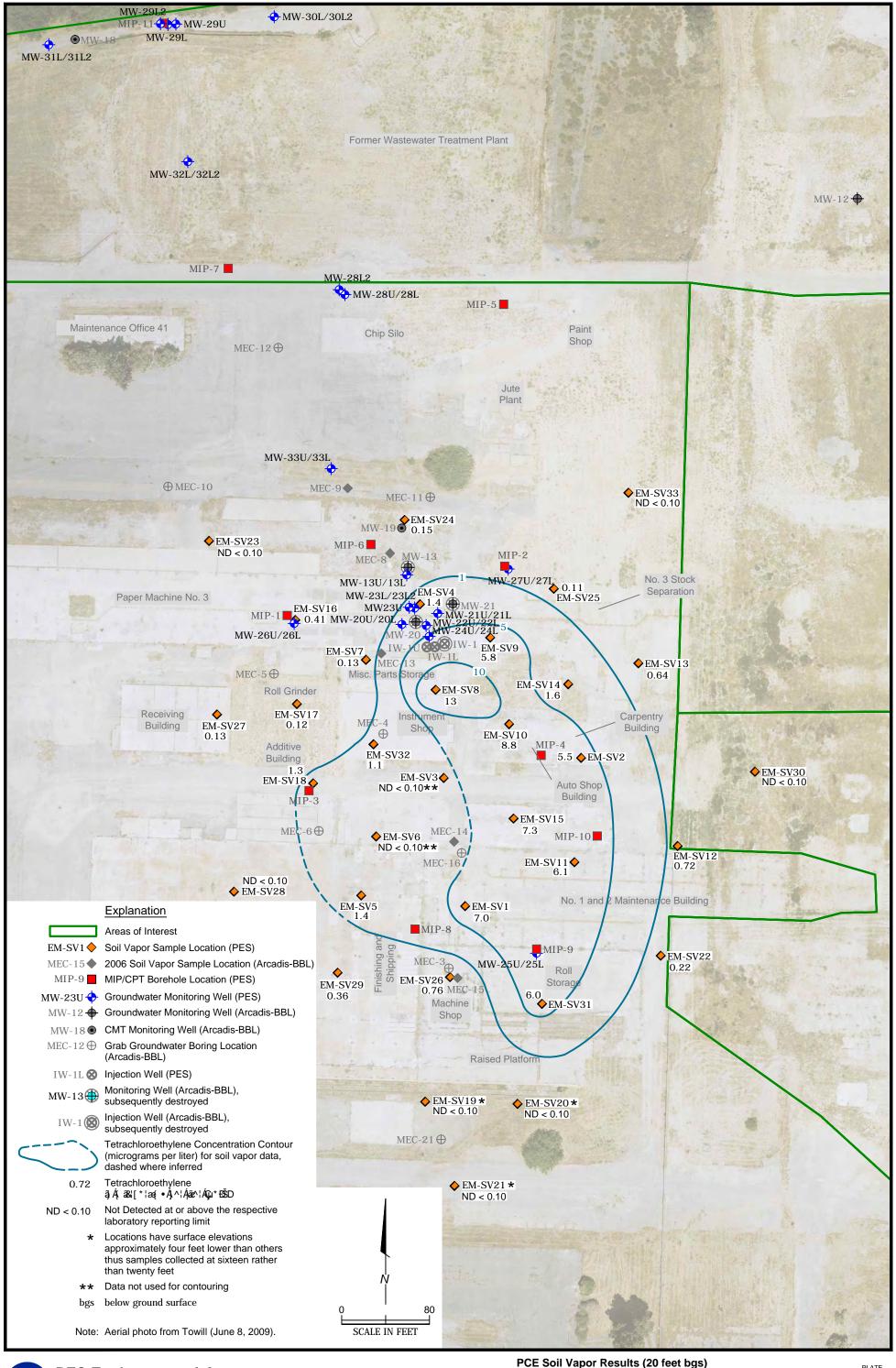




PCE Soil Vapor Results (10 feet bgs) Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation - East Mill Antioch, California

7

H - 434



H - 435

*SEG* 

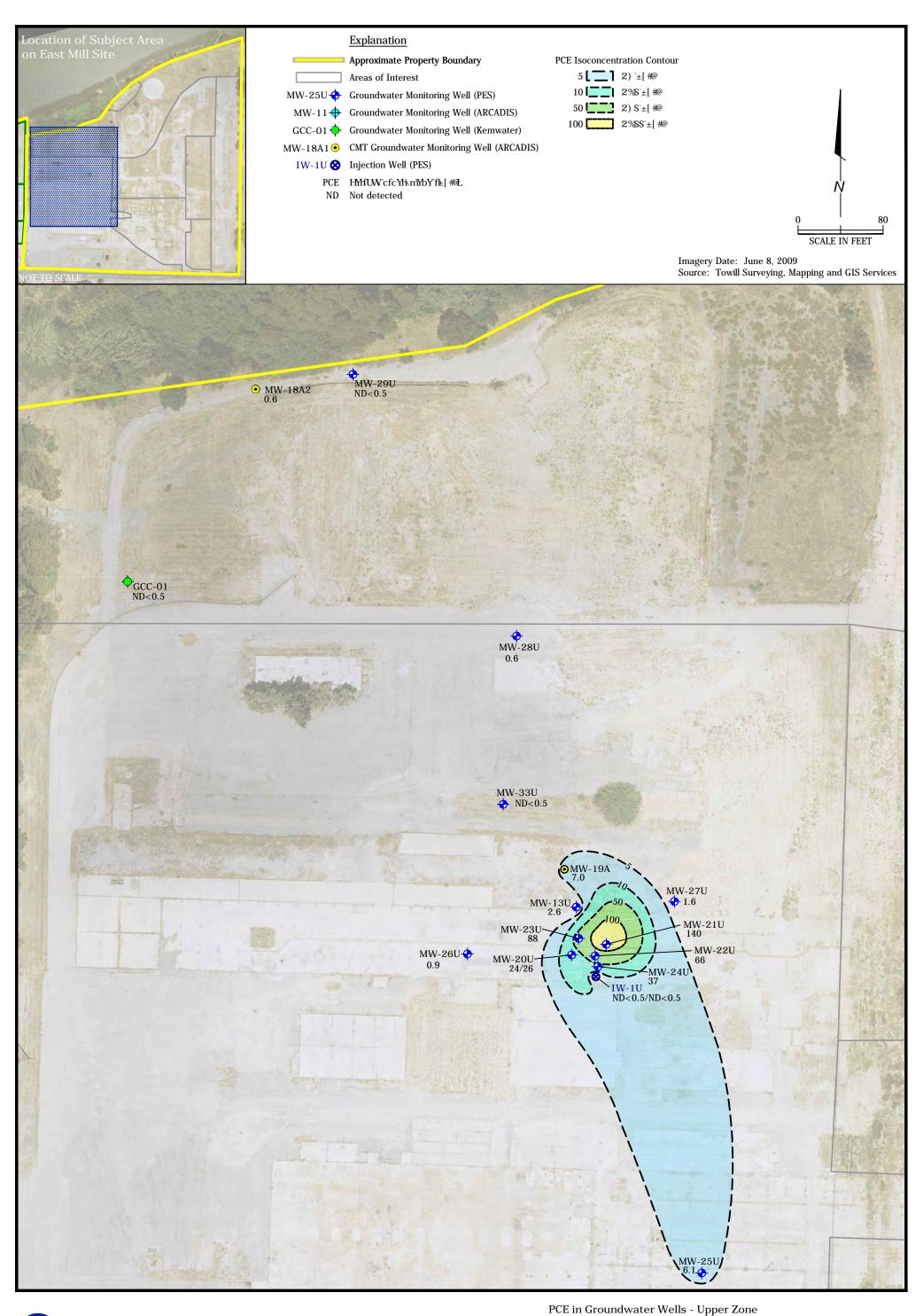
REVIEWED BY



PCE Soil Vapor Results (20 feet bgs)
Removal Action Workplan, PCE Groundwater Plume
Former Gaylord Container Corporation - East Mill
Antioch, California

RLATE

117800103081\_7-8



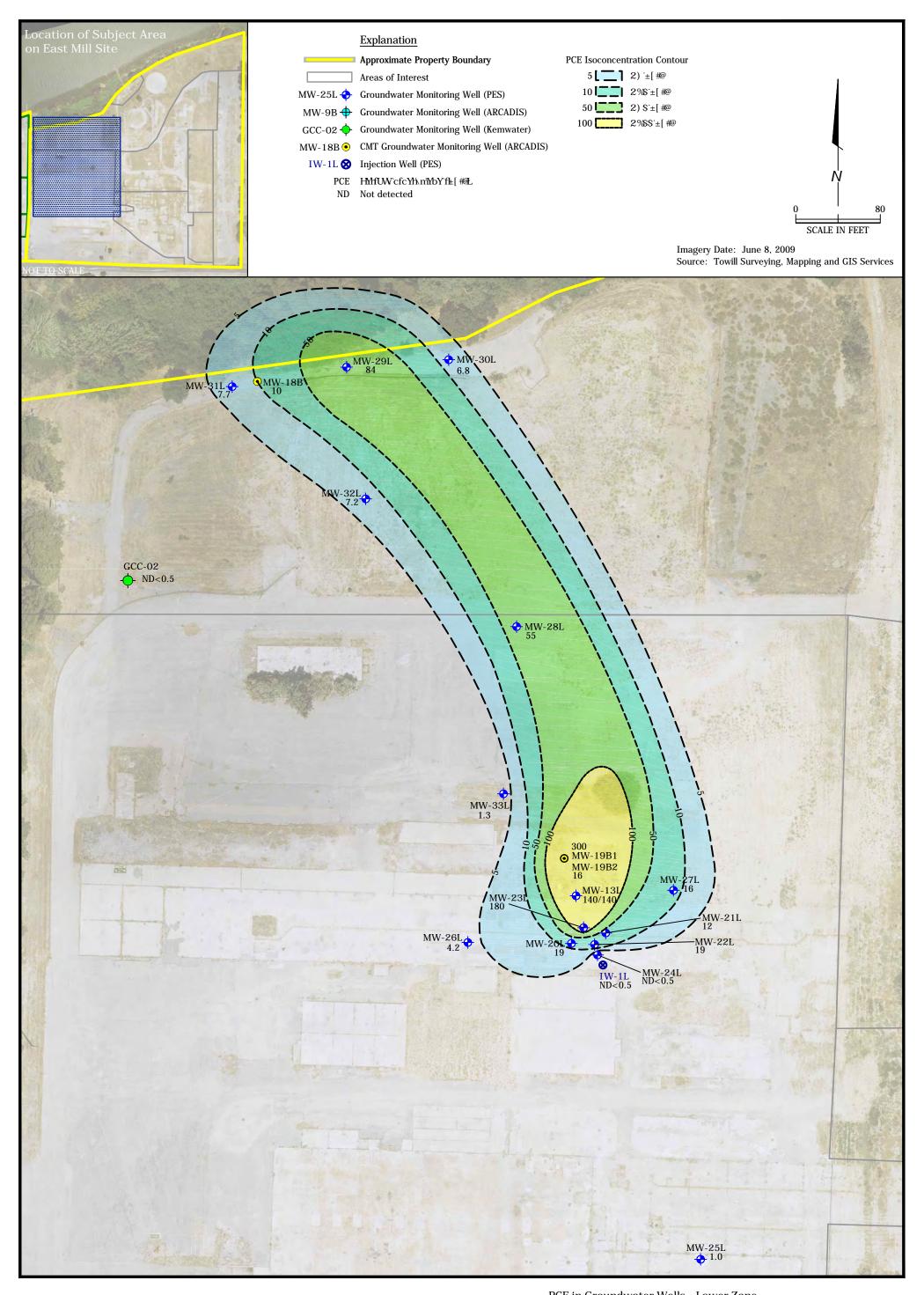


SEG

REVIEWED BY

November 2010 Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation - East Mill Antioch, California

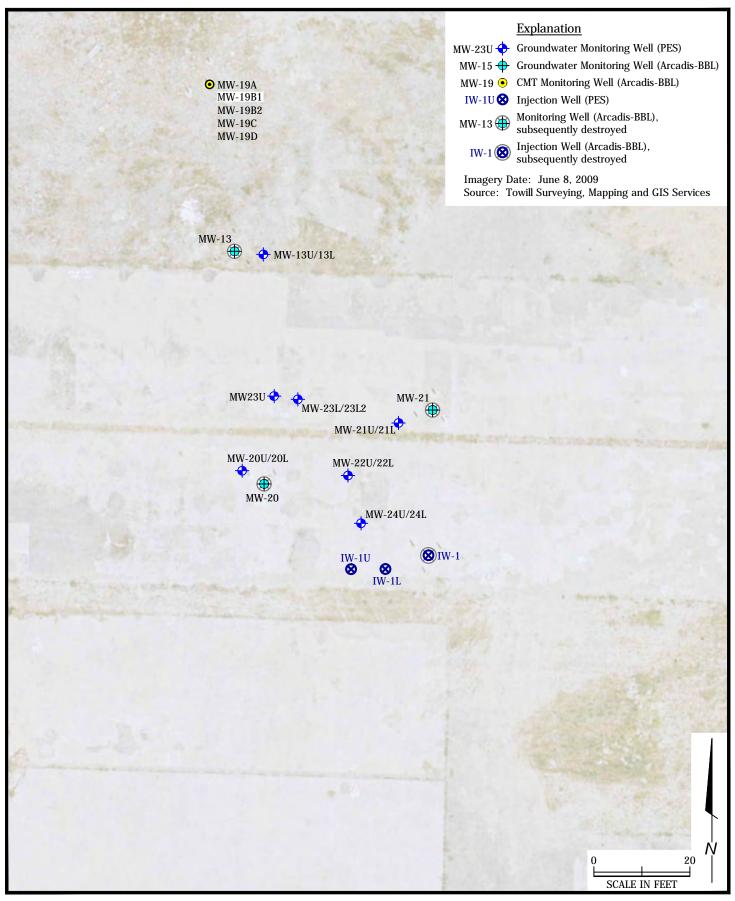
PLATE





PCE in Groundwater Wells - Lower Zone November 2010 Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation - East Mill Antioch, California

1 **(**)





#### **Pilot Study Monitoring Well Locations**

Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation - East Mill Antioch, California

1 1

### APPENDIX A

### LABORATORY HEXAVALENT CHROMIUM DISCUSSION

#### Appendix A

#### **Laboratory Hexavalent Chromium Discussion**

The addition of the oxidizing agent potassium permanganate to groundwater converts available trivalent chromium to dissolved hexavalent chromium.

Determination of these hexavalent chromium concentrations involves producing a colored complex that is measured at a specific wavelength; the dark purple color produced by the potassium permanganate interferes with instrument's ability to make that measurement.

Using a technique employed for other analyses, the analyst added a few drops of the reducing agent NaCL-Hydroxylamine HCl, which clears the purple color. However, this reduction reaction also served to convert some or all of the hexavalent chromium to trivalent chromium.

Therefore, the measured and reported concentrations of hexavalent chromium by Method 7199 for Curtis & Tompkins Analytical Laboratory of Berkeley, California (C&T) Laboratory Job Numbers SDGs 224882 (sampled on December 20, 2010) and 225473 (sampled on January 20, 2011) are biased low. The chromium in these samples should be predominantly in the form of Cr+6, so the dissolved chromium concentrations are probably a better indicator of the level of Cr+6 present in the samples.

We surmise that the measured Cr+6 levels are lower in SDG 225473 (sampled on January 20, 2011) because the analyst in that case added an excess of the reducing agent<sup>1</sup>.

-

<sup>&</sup>lt;sup>1</sup> Curtis & Tompkins Analytical Laboratory (C&T), 2011. Email correspondence from John Goyette, Subject: Re: Hexavalent Chromium Analysis. February 17.

#### **APPENDIX B**

### CARUS METHOD FOR HEXAVALENT CHROMUIUM ANALYSIS WHEN PURPLE COLOR IS PRESENT

### Quenching of Permanganate Containing Soil and Groundwater Remediation Samples

#### PROCEDURE:

Prior to going to the field, make up a solution of sodium thiosulfate in water by adding 20 g to 100 mL of water. Put in a dropper bottle.

A soil sample is placed into a pre-cleaned 40-mL VOC vial pre-charged with 2-5 mLs of sodium thiosulfate solution. The vial shall be capped, inverted or mixed gently, and the color of the resulting solution/soil (test specimen) checked. If the sample turns brown, tan, or colorless the permanganate has been completely reduced.

An aliquot of the groundwater shall be decanted into a pre-cleaned 40-mL VOC vial, pre-charged with one drop of sodium thiosulfate solution. The vial shall be capped, inverted gently, and the color of the resulting solution (test specimen) checked. Solids generated from this reaction need time to settle to accurately determine the color of the sample. If the sample turns brown, tan, or colorless the permanganate has been completely reduced.

If the color of the samples is not clear, then add additional sodium thiosulfate, recap, and invert gently.

Continue adding drops of sodium thiosulfate until the color of the test specimen is clear then add an extra drop of sodium thiosulfate.

Note the total amount of sodium thiosulfate added and discard this test specimen.

Pre-preserve two 40-ml VOC vials per sample with the total amount of sodium thiosulfate required for the test vial, and fill each with aliquots of the soil or groundwater, cap, and invert/mix gently.

Hydrochloric acid shall not be added – note this on Chain of Custody (COC).

Use of this procedure decreases the sample holding time from 14 days to 7-days —this must be so noted on the sample Chain of Custody (COC) and the laboratory notified.

### APPENDIX C

### PERMANGANATE CALCULATIONS

### Appendix C Permanganate Calculations

### Sodium Permanganate Calculations for Alternative 2 (Assume SOD = 0.3 g/kg)

Zone	Saturated Height (feet)	Area (SF)	Saturated Volume (CF)	Soil Density (PCF)		of Soil nd) (kg)	(Excluding I	of Soil Pore Space) orosity) (kg)	SOD (g/kg)	` '	nganate Required SOD (Ibs)	Water Required for 3% solution (gallons)	40% Permanganate Required (lbs)
Upper Zone	5	5,600	28,000	120	3,360,000	1,524,070	2,352,000	1,066,849	0.30	320	706	2,734	1,764
Lower Zone	15	13,600	204,000	120	24,480,000	11,103,942	17,136,000	7,772,759	0.30	2,332	5,141	19,918	12,852
TOTAL	20		232,000							2,652	5,846	22,652	14,616

#### Notes:

lbs = pounds.

kg = kilograms.

g/kg = grams of oxidant per kilogram of soil.

SF = square feet.

CF = cubic feet.

PCF = pounds per cubic foot.

SOD = soil oxidant demand.

#### APPENDIX D

#### REGENESIS PROPOSAL FOR HRC®



December 12, 2010

Proposal No. 3BG112111

Scott Morrison PES Environmental 1682 Novato Blvd., Suite 100 Novato, CA 94947

Subject: Application of Hydrogen Release Compound (HRC®) to Accelerate the Natural Attenuation of Contaminants of Concern (COCs) at the Gaylord Container site

Dear Mr. Morrison:

Thank you for your interest in Regenesis and our Hydrogen Release Compound (HRC®) product. We have reviewed the information that you provided for the above-referenced site. In the following sections of this proposal we will discuss: the use of HRC, design and cost information, delivery of HRC to the subsurface, a recommended groundwater monitoring program, and the performance goals for this particular project. In addition, this proposal should be considered preliminary because some assumptions were made regarding the current biogeochemical conditions of the aquifer and the extent of the contaminant plume requiring treatment. We look forward to working with you on developing a site-specific strategy that will help meet your objectives for the site.

#### Use of Hydrogen Release Compound (HRC®) to Accelerate Bioremediation

HRC is a proprietary polylactate ester that is manufactured as a viscous gel and has a consistency similar to that of cold honey. It slowly releases lactate when it is hydrated. Naturally occurring microorganisms create hydrogen and reducing conditions in the aquifer when they metabolize lactate and facilitate a process known as reductive dechlorination. Reductive dechlorination is one of the primary attenuation mechanisms by which chlorinated solvent groundwater plumes can be stabilized and/or remediated.

This product is used to accelerate the *in-situ* biodegradation rates of chlorinated hydrocarbons (CHs) via anaerobic reductive dechlorination processes. The indigenous microorganisms capable of reductive dechlorination use the hydrogen to progressively remove chlorine atoms from chlorinated hydrocarbon contaminants. In general, reductive dechlorination of ethenes occurs by way of sequential dechlorination from perchloroethene (PCE) to trichloroethene (TCE) to dichloroethene (DCE) then to vinyl chloride (VC) and finally to ethene.

#### **Preliminary Design and Cost Information for Full Scale Remediation**

Based on the provided data and our earlier conversations with you, Regenesis understands that the treatment approach at the subject site will include barrier-based and grid-based design approaches. This treatment strategy should reduce the mass of COCs in the target (source) zone as well as limit the

1011 CALLE SOMBRA ~ SAN CLEMENTE, CA 92673 ~ TELEPHONE: 916.409.9331

downgradient migration of COCs. The design specifications for this treatment approach are found in a subsequent table.

#### Data and Assumptions used to design this HRC® project

The following data was used to determine the quantity of HRC needed for this site-specific project.

#### Upper

- Estimated area requiring treatment: 3,700 square feet
- Representative contaminants: .140 mg/L PCE
- Contaminated saturated zone thickness requiring treatment: 5 feet
- Aquifer Material: sand
- Current groundwater geochemistry: dissolved oxygen 1.5 mg/L, nitrate 2.6 mg/L, manganese 34 mg/L, iron nd, sulfate 150 mg/L.
- Groundwater Velocity: .52 ft/day

#### Lower

- Estimated area requiring treatment: 12,600 square feet
- Representative contaminants: .300 mg/L PCE
- Contaminated saturated zone thickness requiring treatment: 15 feet
- Aquifer Material: sand
- Current groundwater geochemistry: dissolved oxygen 1.5 mg/L, nitrate 2.6 mg/L, manganese 34 mg/L, iron nd, sulfate 200 mg/L.
- Groundwater Velocity: .52 ft/day

The design specifications and costs cited below represent a preliminary design for an accelerated bioremediation project. This design may need to be adjusted as detailed design and regulatory oversight issues are finalized. For example, the following design parameters may need to be adjusted prior to the implementation:

Exact delivery locations should be selected in the final design process, and delivery locations may need to be adjusted to take into account site features such as underground utilities and other site structures.

HRC Treatment Area – Upper Treatment Zone			
Design Feature	Specification		
Saturated thickness requiring treatment	5 feet		
Treatment area in length 3,700 square feet			
Delivery point spacing and configuration	20 pts spaced 10 feet on center within rows and 20 feet on center btw rows. Offset rows by 5 feet.		
HRC dose rate in lbs/vertical foot	6 lbs/ft (30 lbs per point)		
HRC Primer dose rate in lbs/vertical foot	1.2 lbs/ft (10 lbs per point)		
HRC material	20 pts. x 5 feet x 6 lbs/ft = 600 lbs		
HRC Primer material	20 pts. x 5 feet x 1.2 lbs/ft = 120		
HRC material cost at \$6.25/lb	\$3,750 plus shipping and sales tax		
HRC material cost at \$2.80/lb	\$336 plus shipping and sales tax		

HRC Treatment Area – Lower Treatment Zone			
Design Feature	Specification		
Saturated thickness requiring treatment	5 feet		
Treatment area in length 12,600 square feet			
Delivery point spacing and configuration	48 pts spaced 10 feet on center within rows and 30 feet on center btw rows. Offset rows by 5 feet.		
HRC dose rate in lbs/vertical foot	8 lbs/ft (120 lbs per point)		
HRC Primer dose rate in lbs/vertical foot	1 lbs/ft (15 lbs per point)		
HRC material	20 pts. x 15 feet x 8 lbs/ft = 5,760 lbs		
HRC Primer material	20 pts. x 15 feet x 1 lbs/ft = 720		
HRC material cost at \$6.25/lb \$36,000 plus shipping and sales tax			
HRC material cost at \$2.80/lb \$2,016 plus shipping and sales tax			

<sup>\*</sup>Please note that the price quoted in this proposal is locked for 30 days.

#### **Total HRC® Project Cost**

The total cost of an HRC-accelerated bioremediation project can be estimated using the following items:

- HRC material, shipping fees, and sales tax
- Fieldwork costs associated with the installation of the HRC product (Customers are responsible for selecting the drilling sub-contractor that will be used for the project.)

- Groundwater monitoring well construction (if additional monitoring wells need to be installed to properly monitor the performance of the project)
- All fieldwork and laboratory analysis associated with periodic groundwater monitoring events
- Consultant oversight and report generation

The costs presented in this proposal are for HRC material costs and for a one-time application only. The need to re-apply HRC depends on your plume management strategy, site-specific biodegradation performance, and the ultimate remediation goals for the site. For grid-based applications, one- to two-reapplications may be necessary over the duration of the project. However each re-application would most likely be done over a smaller area and the dose amount would be less than the initial application assuming that there is not an on-going source present. For barrier-based designs, re-applications will be necessary every one- to two-years as long as there is a need to prevent contaminant migration. As can be seen, project costs are directly related to the period of time needed to achieve the site-specific goals.

#### **HRC®** Delivery to Contaminated Zone

This product is normally applied to the subsurface using direct-push hydraulic equipment. Drive rods are pushed to the bottom of the contaminated saturated zone, and then HRC is injected as the rods are withdrawn. Drive rods with an inner diameter of at least 0.625-inches should be used to inject this material. At sites where direct-push is not feasible, auger-based equipment can be used to deliver HRC. Furthermore, where long-term treatment is required, permanent, small-diameter injection/re-injection wells may be used.

If re-injection wells are used to apply HRC, the wells should be installed into regular boreholes with the annular space filled with aquarium gravel or an equivalent material. The permanent type injection wells should be constructed of Schedule 80 PVC pipe with wide screen slots (up to 0.04-inches). Generally, re-injection wells have diameters of one- to two-inches (25 to 50 mm) and are installed into six- to eight-inch (150 to 200 mm) boreholes. A thick (< three feet) bentonite seal should be installed at the top of the screened interval in order to minimize the possibility of short-circuiting during injection/installation activities.

One of the most important aspects of a successful HRC application is using the appropriate pump to install this material. Based on our experience on over 500 project sites, we recommend using a pump that has a pressure rating of at least 1,500 pounds per square inch (psi) and a delivery rating of at least three gallons per minute. Failing to specify and use the appropriate equipment for this type of product installation may increase field time and result in improper application of the material. If you have any questions about purchasing, renting, or specifying a pump for a project, please contact the Technical Service Group staff at Regenesis.

#### Recommended Groundwater Monitoring Program for an HRC® Project

In order to validate the effectiveness of natural attenuation processes (via HRC-enhanced treatment), we recommend conducting groundwater monitoring at selected wells. A baseline round of sampling should be performed to identify the groundwater quality/conditions prior to the injection of HRC. After the product has been installed, we recommend monthly monitoring of the following field parameters: DO, ORP, temperature, pH, dissolved and total Fe and Mn. Monitoring of laboratory analyses for metabolic acids and dissolved gases should be conducted monthly or quarterly. Additional sampling can be

performed every other month for a six- to twelve-month period. After the initial biodegradation and geochemical trends have been identified, the monitoring frequency can be decreased to a quarterly, semi-annually, or annually. In addition, if a correlation between the concentrations of metabolic acids and the concentration of TOC in groundwater can be established, the TOC may be used as a substitute for the acid analyses.

The following tables outline the parameters and methods that should be used to monitor the progress of an HRC-based project.

Groundwater Monitoring Parameters – Lab Only				
Analyte Method				
Chlorinated Volatile Organic Compounds (VOCs)	EPA 8260			
Total organic carbon (TOC) <sup>1</sup>	EPA 415.1 or EPA 9060			
Metabolic acids <sup>2</sup> : lactic, pyruvic, acetic,	HPLC/UV			
propionic, and butyric (generated from HRC release)	(Call labs to determine appropriate methodology)			
Nitrate	EPA 353.1 or EPA 9056			
Sulfate	EPA 375.3 or EPA 9056			
Carbon Dioxide, Methane, Ethane, Ethene (all optional)	ASTM D1945			

\*\* A specially qualified laboratory should do the analytical testing for the metabolic acids; otherwise most laboratories can provide testing for the remaining parameters. A typical cost for the above testing program is approximately US\$300 per sample.

Groundwater Monitoring Parameters – Field or Lab	
Analyte	Method

<sup>&</sup>lt;sup>1</sup> TOC on soil for design phase

-

<sup>&</sup>lt;sup>2</sup> Regenesis recommends a detection limit of 1.0 mg/L for acetic, butyric, lactic and propionic acids. If possible, a detection limit of 0.1 mg/L should be used for pyruvic acid.

pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature	Meter reading taken in flow-through cell (DO can also be measured with a Hach field test kit.)	
Total and dissolved iron and manganese	Colorimetric Hach Method or EPA 6000 series with filtered and unfiltered samples	
Sulfide	Colorimetric Hach Method or EPA 376.2	

#### **Groundwater Monitoring Locations**

The following table outlines the suggested locations and significance of monitoring wells used to monitor the progress of an HRC-based project.

Location	Significance		
Background (Outside the groundwater plume)	Allows for the changes in natural attenuation conditions induced by addition of HRC to be compared to background levels		
Upgradient of treatment zone	Provides a measure of contaminant and competing electron acceptor flux entering treatment zone		
Inside treatment zone	Provides information on how HRC is affecting the aquifer conditions and contaminant concentrations		
Downgradient of treatment zone	Provides information on the effect HRC is having on the biodegradation rates of contaminants and on aquifer conditions		

#### Use of Bio-Dechlor INOCULUM<sup>TM</sup> to Accelerate Bioremediation

Bio-Dechlor INOCULUM is an enriched natural microbial consortium containing species of *Dehalococcoides*. Originally isolated from an aquifer contaminated with chlorinated solvents, this microbial consortium has since been enriched to increase its ability to rapidly dechlorinate contaminants during *in situ* bioremediation processes. The uniqueness and success of this specific microbial consortium to rapidly degrade chlorinated solvents has been well documented in peer reviewed literature and is available upon request. <sup>34</sup>

<sup>&</sup>lt;sup>3</sup> Lendvay, J.M. et al. Bioreactive Barriers: bioaugmentation and biostimulation for chlorinated solvent remediation. *Environmental Science and Technology*. 1422-1431 (2003).

<sup>&</sup>lt;sup>4</sup> Lendvay, J.M. et al. Preventing contaminant discharge to surface waters: plume control with bioaugmentation. Bioaugmentation, Biobarriers and Biogeochemistry, *Proceedings from the Sixth International In Situ and On-Site Bioremediation Symposium.* 19-26 (2001).

Recent trends in engineered bioremediation indicate that the treatment of chlorinated solvent contamination sometimes results in slow or incomplete degradation of the intermediate compounds. When faced with this circumstance, bioaugmentation with a microbial consortium such as Bio-Dechlor INOCULUM offers a solution to accelerate or simply make possible the complete dechlorination of these otherwise recalcitrant contaminants.

Bio-Dechlor INOCULUM has been successfully applied at the outset of bioremediation projects to ensure high rates of biodegradation, thus shortening the life cycle cost of projects and time to closure. It has also been applied midway through *in situ* bioremediation projects to accelerate the degradation of daughter products such as cis-DCE.

#### **Performance Expectations**

#### Site Characterization

This design/proposal is based upon site characteristics and professional opinions provided by your company. It is your responsibility to ensure that the site characteristics provided to Regenesis and subsequently used in this design are representative of actual site characteristics. Actual site characteristics e.g. identification of the appropriate vertical treatment zone, that vary from those provided for this design may directly affect the overall performance of the project.

#### Subsurface Product Delivery

Product delivery during application is of the highest importance in ensuring project success. Attention must be given to both horizontal and vertical placement of the product. The professional judgment of your associates should be used to identify the appropriate treatment zone (vertical and lateral). The identified treatment zone should consider the distribution of the targeted contaminant as well as variations in subsurface permeability that might preferentially channel the product during application. Finally, it is the responsibility your company to ensure that the field delivery methods used by the applier actually deliver the product into the identified treatment zone.

#### **Project Responsibility**

Regenesis trusts that the present proposal is sufficiently complete. Given the nature and extent of project factors beyond the control of Regenesis, it must be understood that the responsibility for successful project implementation remains with your company. However, as always, Regenesis would be pleased to assist with any technical support and product application advice we may be able to offer.

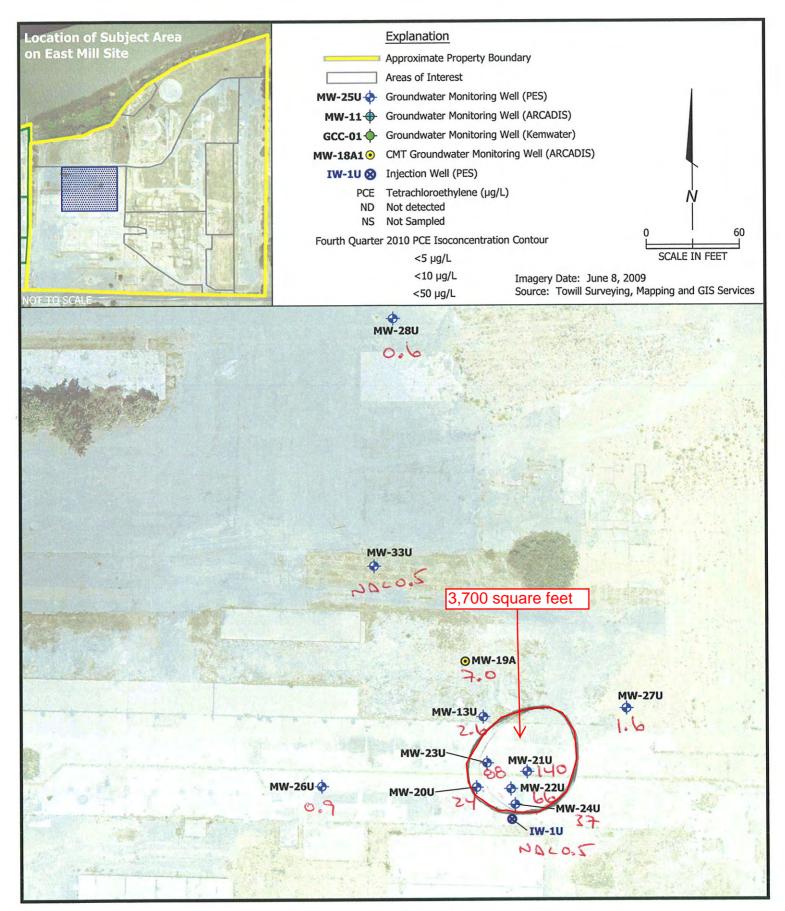
#### Regenesis Support

Regenesis is committed to supporting its customers with the highest level of service available in the remediation product industry. If you have any questions or require additional assistance with this design/proposal please contact Jack Peabody at 925.944.5566 (jpeabody@regenesis.com) or me at 916.409.9331 (bgriffiths@regenesis.com).

Sincerely,

Brittain Griffiths
Applications Engineer

an Affether p.





1178.001.03.062117800103062\_4Q10\_1-2-detail

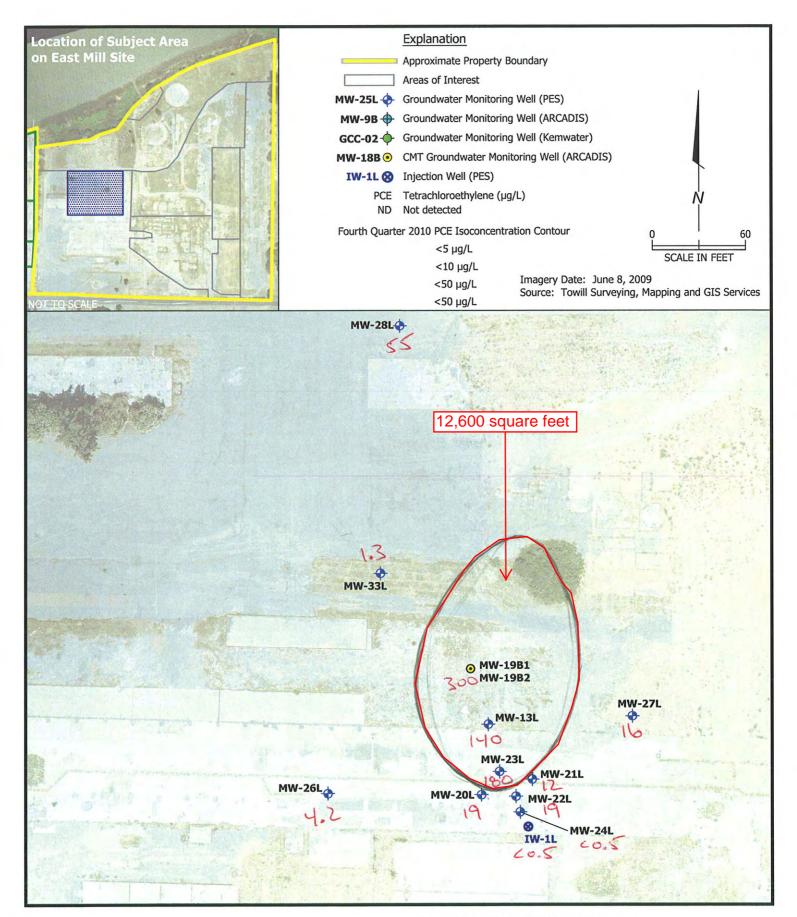
**PCE in Groundwater Wells - Upper Zone Fourth Quarter 2010** 

East Mill

H - 454

Former Gaylord Container Corporation Facility Antioch, California

PLATE





**PCE in Groundwater Wells - Lower Zone Fourth Quarter 2010** 

East Mill

Former Gaylord Container Corporation Facility Antioch, California

PLATE



#### **HRC Design Software for Plume Area/Grid Treatment**

Aug 2006

Regenesis Technical Support: USA (949) 366-8000

www.regenesis.com

Site Name: Gaylord Container - Upper Zone Location: Proposal No. 3BG112111

Consultant:

#### Site Conceptual Model/Extent of Plume Requiring Remediation

Width of plume (intersecting gw flow direction) Length of plume (parallel to gw flow direction)

Depth to contaminated zone

Thickness of contaminated saturated zone

Nominal aquifer soil (gravel, sand, silty sand, silt, clay, etc.)

Total porosity Hydraulic conductivity Hydraulic gradient Seepage velocity

Treatment Zone Pore Volume

50	ft
74	ft
25	ft
5	ft
sand	
0.33	Effective porosity:
26	ft/day ft/ft
0.005	ft/ft

0.005	ft/ft	
189.8	ft/yr	0.520
6,105	ft <sup>3</sup>	45,672
Contaminant	Contaminant	Stoichiometry

Mass (lb)

0.2

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.25	
9.2E-03	cm/sec

3,700

0.520	ft/day
45,672	gallons

cont/H<sub>2</sub> (wt/wt)

20.7

21.9

24.2

31.2

22.2

24.7

0.0

0.0

Stoich. (wt/wt)

#### **Dissolved Phase Electron Donor Demand**

Tetrachloroethene (PCE)

Trichloroethene (TCE) cis-1,2-dichloroethene (DCE)

Vinyl Chloride (VC)

1,1,1-Trichloroethane (TCA)

1,1-Dichlorochloroethane (DCA)

User added, also add stoich. demand and Koc (see pull-down User added, also add stoich. demand and Koc (see pull-down



0.00 0.00 <- pull-down menu

Conc (mg/L)

0.42

0.00

0.00

0.00

#### Sorbed Phase (SP) Electron Donor Demand

Soil bulk density

Fraction of organic carbon (foc)

1.76	g/cm <sup>3</sup> =	110	lb/cf
0.002	range: 0.0001 to 0.01		_
Contaminant	Contaminant	Stoichiometry	

(Values are estimated using SP = foc*Koc*Cgw)	Koc	Contaminant	Contaminant	Stoichiometry
(Adjust Koc as necessary to provide realistic estimates)	(L/kg)	Conc (mg/kg)	Mass (lb)	cont/H <sub>2</sub> (wt/wt)
Tetrachloroethene (PCE)	371	0.31	0.6	20.7
Trichloroethene (TCE)	122	0.00	0.0	21.9
cis-1,2-dichloroethene (DCE)	80	0.00	0.0	24.2
Vinyl Chloride (VC)	2.5	0.00	0.0	31.2
1,1,1-Trichloroethane (TCA)	304	0.00	0.0	22.2
1,1-Dichlorochloroethane (DCA)	33	0.00	0.0	24.7
User added, also add stoich. demand and Koc (see pull-down	0	0.00	0.0	0.0
User added, also add stoich. demand and Koc (see pull-down	0	0.00	0.0	0.0

#### Competing Electron Acceptors (CEAs)

Oxygen Demand Nitrate Demand

Bioavailable Manganese Demand Bioavailable Iron Demand

Sulfate Demand

Conc (mg/L)	Mass (lb)	e acceptor/H <sub>2</sub>
1.50	1	8.0
2.60	1	12.4
34.00	13	27.5
0.00	0	55.9
100.00	38	12.0

CEA

#### **Microbial Demand Factor** Safety Factor

3	Recommend 1-4x
3.4	Recommend 1-4x

CEA

#### Injection Point Spacing and Application Rate:

Injection spacing within rows (ft) Injection spacing between rows (ft)

Advective travel time between rows (days)

Ī	10.0
ſ	20.0
I	38

# points per row:	5
# of rows:	4
Total # of points:	20
Min. required HRC application rate (lb/ft)	6.0

Project Summary		
Number of HRC delivery points (adjust as necessary for s	ite)	20
HRC application rate in lbs/ft (adjust as necessary for site	)	6.0
Corresponding amount of HRC per point (lb)		30
Number of 30 lb HRC buckets per injection point		1.0
Total number of 30 lb buckets		21
Total amount of HRC (lb)		600
HRC unit cost (\$/lb)		\$ -
Total Material Cost		\$ -
Shipping and Tax Estimates in US Dollars		
Sales tax r	ate: 0.00%	\$ -
Total material cost		\$ -
Shipping of HRC (call for quote)		\$ -
Total Regenesis Material Cost		\$ -

HRC Installation Cost Estimate (responsibility of customer to contract work)	Other Project Costs	
Length of each injection point (ft)	30 Design and regulatory issues	\$ -
Total length for direct push for project (ft)	600 Groundwater monitoring and rpt	\$ -
Est. daily installation rate (ft per day: 300 for push, 150 for drilling)	300 Other	\$ -
Estimated points per day (10 to 30 is typical for direct push)	10.0 HRC Primer 120 lbs @ \$2.80/lb	\$ 336



#### **HRC Design Software for Plume Area/Grid Treatment**

Aug 2006

Regenesis Technical Support: USA (949) 366-8000

www.regenesis.com

Site Name: Gaylord Container - Lower Zone Location: Proposal No. 3BG112111 Consultant:

#### Site Conceptual Model/Extent of Plume Requiring Remediation

Width of plume (intersecting gw flow direction) Length of plume (parallel to gw flow direction)

Depth to contaminated zone

Thickness of contaminated saturated zone

Nominal aquifer soil (gravel, sand, silty sand, silt, clay, etc.)

Total porosity Hydraulic conductivity

Hydraulic gradient Seepage velocity

Treatment Zone Pore Volume

78.75	ft
160	ft
25	ft
15	ft
sand	
0.33	
26	ft/da

ft/ft

ft/yr

ft<sup>3</sup>

0.005

189.8

62.370

Contaminant

Conc (mg/L)

0.30

0.00

0.00

0.00

Effective porosi

Contaminant

Mass (lb)

1.2

0.0

0.0

0.0

0.0

0.0

0.0

0.0

ty:		0
	9	.2

E-03 cm/sec 0.520 ft/day gallons 466.590

Stoichiometry

cont/H<sub>2</sub> (wt/wt)

20.7

21.9

24.2

31.2

22.2

24.7

0.0

0.0

Stoich. (wt/wt)

12,600

#### **Dissolved Phase Electron Donor Demand**

Tetrachloroethene (PCE)

Trichloroethene (TCE)

cis-1,2-dichloroethene (DCE)

Vinyl Chloride (VC)

1,1,1-Trichloroethane (TCA)

1,1-Dichlorochloroethane (DCA)

User added, also add stoich. demand and Koc (see pull-down

User added, also add stoich. demand and Koc (see pull-down



0.00 0.00 <- pull-down menu

#### Sorbed Phase (SP) Electron Donor Demand

Soil bulk density

Fraction of organic carbon (foc)

1.76
0.002

CEA

g/cm<sup>3</sup> g/cm<sup>-</sup> = range: 0.0001 to 0.01 110 lb/cf

(Values are estimated using SP = foc*Koc*Cgw)	Koc	Contaminant	Contaminant	Stoichiometry
(Adjust Koc as necessary to provide realistic estimates)	(L/kg)	Conc (mg/kg)	Mass (lb)	cont/H <sub>2</sub> (wt/wt)
Tetrachloroethene (PCE)	371	0.22	4.6	20.7
Trichloroethene (TCE)	122	0.00	0.0	21.9
cis-1,2-dichloroethene (DCE)	80	0.00	0.0	24.2
Vinyl Chloride (VC)	2.5	0.00	0.0	31.2
1,1,1-Trichloroethane (TCA)	304	0.00	0.0	22.2
1,1-Dichlorochloroethane (DCA)	33	0.00	0.0	24.7
User added, also add stoich. demand and Koc (see pull-down	0	0.00	0.0	0.0
User added, also add stoich. demand and Koc (see pull-down	0	0.00	0.0	0.0

#### Competing Electron Acceptors (CEAs)

Oxygen Demand Nitrate Demand

Bioavailable Manganese Demand Bioavailable Iron Demand

Sulfate Demand

Conc (mg/L)	Mass (lb)	e acceptor/H <sub>2</sub>
1.50	6	8.0
2.60	10	12.4
34.00	132	27.5
0.00	0	55.9
100.00	389	12.0

CEA

#### Safety Factor

**Microbial Demand Factor** 

3	Recommend 1-4x
3.2	Recommend 1-4x

#### Injection Point Spacing and Application Rate:

Injection spacing within rows (ft) Injection spacing between rows (ft)

Advective travel time between rows (days)

10.0	
30.0	
58	

# points per row: # of rows: 6 Total # of points: 48 Min. required HRC application rate (lb/ft)

Project Summary		
Number of HRC delivery points (adjust as necessary for site)		48
HRC application rate in lbs/ft (adjust as necessary for site)		8.0
Corresponding amount of HRC per point (lb)		120
Number of 30 lb HRC buckets per injection point		4.0
Total number of 30 lb buckets		192
Total amount of HRC (lb)		5,760
HRC unit cost (\$/lb)	\$	-
Total Material Cost	\$	-
Shipping and Tax Estimates in US Dollars		
Sales tax rate: 0.	00% \$	-
Total material cost	\$	-
Shipping of HRC (call for quote)	\$	-
Total Regenesis Material Cost	\$	-

HRC Installation Cost Estimate (responsibility of customer to contract work)	Other Project Costs	
Length of each injection point (ft)	40 Design and regulatory issues	\$ -
Total length for direct push for project (ft)	1,920 Groundwater monitoring and rpt	\$ -
Est. daily installation rate (ft per day: 300 for push, 150 for drilling)	300 Other	\$ -
Estimated points per day (10 to 30 is typical for direct push)	7.5 HRC Primer 720 @ \$2.80/lb	\$ 2,016

#### **APPENDIX E**

# METHODS AND DETAILS FOR CONSTRUCTION OF ADDITIONAL LOWER ZONE GROUNDWATER MONITORING WELLS

#### Appendix E

#### **Well Installation Procedures and Construction Details**

Drilling activities will be performed by a licensed contractor possessing a valid C-57 water well contractor's license certified by the State of California. Field investigation activities will be performed in accordance with applicable California Department of Water Resources (DWR) Water Well Standards (Bulletin 74-90) (DWR, 1991). All downhole equipment, including temporary conductor casing and core barrels, will be cleaned using high-pressure hot water washing prior to use at each drilling location.

Borings for the groundwater monitoring wells will be installed using a rotary-sonic drill rig, with oversight by a PES geologist. Boreholes for the 2-inch diameter wells will be advanced using 6 to 7-inch diameter temporary conductor casing to reduce the potential for cross-contamination during drilling and well construction activities, and allows for the collection of continuous soil cores for lithologic logging. Soil samples will be continuously collected for lithologic purposes. While advancing the borings, a PES geologist will log and classify the soils according to the Unified Soil Classification System. Soil samples will be field screened for VOCs in the sample headspace using a PID and readings will be recorded on the well logs. The lithologic logs will be used to confirm the depths of the upper and lower zones and the fine-grained unit between the upper and lower zones.

If heaving sands are encountered during the installation of the additional groundwater monitoring wells (as often encountered during previous well installation at the site), it may be necessary to add water to the borehole to increase the hydraulic head above heaving sands. This will assist the driller in working the sands out of the temporary conductor casing prior to well installation. Heaving sands occur as a result of hydrostatic pressures forcing sand into the conductor casing. The amount of water added during well installation will be recorded and a sample of the water added during well installation will be submitted to C&T for analysis of halogenated VOCs (8010 list) using EPA Test Method 8260B.

During well construction, the polyvinyl chloride (PVC) well casing will be suspended to ensure vertical alignment and plumbness, and centralizers will be utilized on wells screened in the lower zone. A 10-foot long slotted screen interval will be installed in each well with 2.5-foot long silt traps installed at the bottom of the wells screened in the lower zone. The depth and proper placement of the annular materials will be measured and confirmed throughout the well installation process using a weighted tape or similar measuring device. The temporary conductor casing will be removed after/in conjunction with placement of the sand filter pack and borehole seals. The sand filter pack will extended from the bottom of the well/borehole to approximately 2 feet above the top of the well screen.

117800103W004.docx E-1

A minimum 2-foot thick hydrated bentonite pellet seal will be placed above the filter pack of the well. In accordance with applicable regulations and under oversight by a CCCEHD inspector, the annular space above the bentonite seal of the well will tremie sealed with a neat cement grout to a depth of approximately 2 feet bgs. The blank casing in all the wells will be extended to approximately 0.5 foot bgs, and an expansion well cap will used to secure and seal the top of each well casing. Traffic-rated, flush-mount vaults will be installed in concrete over the well heads for protection.

A State of California Well Completion Report for each well will be submitted to the State following well installation.

#### **Well Development**

Following a minimum 72-hour period after placement of the sanitary seal, the monitoring wells will be developed using a combination of bailing, swabbing, and pumping with a submersible pump. The objective of well development is to remove fine-grained material inside the filter pack and casing; to stabilize and sort the filter pack around the well screen; and to produce representative water samples from the water bearing zone. PES staff will oversee well development activities and various water parameters including pH, temperature, conductivity and turbidity will be monitored with field instruments. Well development will continue until the discharge water is visually clear of sediment and the turbidity of the groundwater is less than 50 nephelometric turbidity units (NTUs), if feasible.

#### **Surveying**

The top of the well casings will be surveyed by a California registered land surveyor, to obtain reference elevations relative to NAVD88 and horizontal and vertical coordinates at each groundwater monitoring well location relative to NAD83.

#### Handling, Storage and Disposal of Investigation-Derived Waste

Wastewater, purged groundwater or rinsate generated during well installation, well development and decontamination activities will be temporarily stored on-site in secured and labeled tanks and/or drums, until proper off-site management in accordance with applicable State and Federal laws is arranged. IDW wastewater samples will be collected and analyzed for characterization purposes.

Soil cuttings generated during well installation activities will be temporarily stored within a plastic-lined hay bale bermed area, pending results of characterization sampling. The soil cuttings will be characterized by analyzing a representative composite sample for VOCs using EPA Test Method 8260B.

117800103W004.docx E-2

#### APPENDIX F

#### GROUNDWATER SAMPLING PROCEDURES

#### Appendix F

#### **Groundwater Sampling Procedures**

Groundwater-level measurements will be collected from wells prior to commencing groundwater purging and sampling activities. Prior to measuring water levels in the wells, well caps will be removed to equilibrate with atmospheric pressure. Depth-to-groundwater will be measured using an electronic water-level indicator probe accurate to within 0.01-inch. Groundwater sampling will be completed using low-flow methodologies, in general accordance with EPA recommended low-flow sampling procedures<sup>1</sup>.

Groundwater will be purged using a bladder pump with new tubing at each well location. The pump-intake will generally be placed near the middle of the screen interval, or near the middle of the water column in wells with screens that are not completely submerged. Many of the upper zone wells have little water and the pump will be set near the bottom of the screen interval. During purging of the well, field parameters will be measured using a flow-through cell. Purging will continue until field parameters have stabilized within approximately 10% of the previous two measurements. The volume of water removed and field observation (if any) regarding the color and clarity of the water will be recorded.

Following stabilization of the field indicator parameters, groundwater samples will be collected from the wells using low-flow sampling methods at a rate of less than 0.5 liters per minute. Groundwater samples specified for dissolved metals analysis will be field filtered with 0.45-micron filters and preserved in the field. The groundwater samples will then be decanted into clean, laboratory-supplied sample containers.

Quality Control (QC) samples, including duplicate samples, equipment blanks and trip blanks will be collected in accordance with guidelines outlined in the Quality Assurance Project Plan (QAPP)<sup>2</sup>, and PES' modifications to the QAPP<sup>3</sup>. Purge water generated during sampling activities will be contained in 55-gallon drums and stored at the site pending characterization for offsite disposal.

117800103W004.docx F-1

H - 462

<sup>&</sup>lt;sup>1</sup> Puls, R.W. and Barcelona, M.J.. U.S. Environmental Protection Agency, Region 2, 1996. *Ground Water Sampling Procedure, Low Stress (Low Flow) Purging and Sampling*. July 30.

<sup>&</sup>lt;sup>2</sup> Blasland, Bouck, and Lee, 2004. Former Gaylord Container Quality Assurance Project Plan, March 25.

<sup>&</sup>lt;sup>3</sup> PES, 2009. Proposed Changes to Quality Assurance Project Plan, Former Gaylord Container Corporation Facility, Antioch, California. May 18.

#### APPENDIX G

#### DETERMINATION OF TOTAL PERMANGANATE DEMAND

#### Appendix G

#### **Determination of Total Permanganate Demand**

The upper zone targets the area with PCE groundwater concentrations that exceed  $50 \mu g/L$ , approximately 5,600 square feet with 5 feet of saturated height. The lower zone targets the area with PCE groundwater concentrations that exceed  $100 \mu g/L$ , approximately 13,600 square feet with 15 feet of saturated height. To calculate the mass of permanganate required for field use, the mass of soil contained in the target treatment area (13,600 square feet), for a saturated height of 15 feet.

#### PERMANGANATE DEMAND FOR CONTAMINANT DESTRUCTION

Oxidant demand for complete mineralization of PCE = 0.96 g of MnO<sub>4</sub>/g of PCE<sup>1</sup>

#### **Upper Zone**

Upper Zone Treatment Area =  $5,600 \text{ ft}^2$ 

Upper Zone Saturated Height = 5 ft

Saturated Volume =  $28,000 \text{ ft}^3$ 

Agueous Volume =  $28,000 \text{ ft}^3 \times 0.3 = 8,400 \text{ ft}^3 = 237,862 \text{ L}$ 

PCE Concentration (max detected in Nov. 2010) of Upper Zone Groundwater = 140  $\mu$ g/L

Total PCE mass in Groundwater = 140  $\mu$ g/L x 237,862 L = 33,300,616  $\mu$ g = 33 g

Oxidant Demand = 33 g PCE x 0.96 g MnO<sub>4</sub>/g PCE = 32 g = 0.032 kg

Upper Zone Permanganate Demand due to PCE in Groundwater = 0.03 kg = 0.07 lbs

#### **Lower Zone**

Lower Zone Treatment Area =  $13,600 \text{ ft}^2$ 

Lower Zone Saturated Height = 15 ft

Saturated Volume =  $204,000 \text{ ft}^3$ 

Agueous Volume =  $204,000 \text{ ft}^3 \times 0.3 = 61,200 \text{ ft}^3 = 1,732,991 \text{ L}$ 

PCE Concentration (max detected in Nov. 2010) of Lower Zone Groundwater = 300  $\mu$ g/L

Total PCE mass in Groundwater =  $300 \mu g/L \times 1,732,991 L = 519,897,366 \mu g = 520 g$ 

Lower Zone =  $520 \text{ g PCE x } 0.96 \text{ g MnO}_4/\text{g PCE} = 499 \text{ g} = 0.50 \text{ kg}$ 

Lower Zone Permanganate Demand due to PCE in Groundwater = 0.50 kg = 1.1 lbs

117800103W004.docx G-1

<sup>&</sup>lt;sup>1</sup> ITRC, 2005. Technical and Regulatory Guidance for In Situ Chemical Oxidation of Contaminated Soil and Groundwater. January.

#### PERMANGANATE DEMAND DUE TO SOIL OXIDANT DEMAND (SOD)

The average SOD measured by Carus in soil samples collected in November 2009 was 0.3 g/kg, with a maximum of 0.5 g/kg. The SOD increases with time, and solution concentration. For the removal action implementation, the average SOD of 0.3 g/kg was used to calculate the permanganate demand due to natural organic matter. A soil density of 120 pounds per cubic foot (PCF) was assumed for site soil.

#### **Upper Zone**

```
Upper Zone Saturated Volume = 28,000 \text{ ft}^3 Mass of Soil = 28,000 \text{ ft}^3 x 120 \text{ PCF} = 3,360,000 \text{ lbs} = 1,524,070 \text{ kg} Mass of Soil excluding pore space = 1,524,070 \text{ kg} x 0.7 = 1,066,849 \text{ kg} Upper Zone = 1,066,849 \text{ kg} soil x 0.30 \text{ g} permanganate/kg dry soil = 320,055 \text{ g} Upper Zone Permanganate Demand due to SOD = 320 \text{ kg} = 706 \text{ lbs}
```

#### **Lower Zone**

```
Lower Zone Saturated Volume = 204,000 ft<sup>3</sup> Mass of Soil = 204,000 ft<sup>3</sup> x 120 PCF = 24,480,000 lbs = 11,103,942 kg Mass of Soil excluding pore space = 11,103,942 kg x 0.7 = 7,772,759 kg Lower Zone = 7,772,759 kg soil x 0.30 g permanganate/kg dry soil = 2,331,828 g Lower Zone Permanganate Demand due to SOD = 2,332 kg = 5,141 lbs
```

#### TOTAL PERMANGANATE DEMAND

```
Total Permanganate Demand = Demand due to PCE in Groundwater + Demand due to SOD Upper Zone Permanganate Demand = 0.07 lbs + 706 lbs = 706 lbs

Lower Zone Permanganate Demand = 1.1 lbs + 5,141 lbs = 5,142 lbs

Total Upper and Lower Zone Permanganate Demand = 5,848 lbs of permanganate
```

The maximum solubility of permanganate is approximately 4 weight percent, and the minimum concentration to achieve the desired destruction is approximately 2 weight percent. Thus, a target concentration of 3 weight percent (3%) permanganate was selected. In order to maintain a 3% solution of permanganate, the required volume of water is:

```
6,000 \text{ lbs of permanganate} / 0.03 = (6,000 + "X" \text{ lbs of water})
```

The above "X" equates to approximately 194,000 pounds of water, or approximately 23,250 gallons of 3% permanganate solution.

117800103W004.docx G-2

#### APPENDIX H

# CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) NOTICE OF EXEMPTION

#### NOTICE OF EXEMPTION

<u>To</u>: Office of Planning and Research

State Clearinghouse

P.O. Box 3044, 1400 Tenth Street, Room 212

Sacramento, CA 95812-3044

From: De

Department of Toxic Substances Control

Brownfields and Environmental Restoration Program

700 Heinz Avenue

Berkeley, California 94710

Project Title: Removal Action Workplan, Former Gaylord Container Corporation-East Mill Facility

Project Location: 2603 Wilbur Avenue, Antioch, CA, Contra Costa County (Assessor's Parcel Number 051-031-005-5)

<u>Project Description</u>: The project involves the Department of Toxic Substance Control's (DTSC) approval of the Removal Action Workplan (RAW) prepared by PES Environmental, Inc. (PES) on behalf of Forestar (USA) Real Estate Group, Inc., dated September 13, 2011. The RAW was developed to address groundwater affected by volatile organic compounds (VOCs) at the East Mill facility, located at the former Gaylord Container Corporation site, 2603 Wilbur Avenue, Antioch, California (site).

<u>Background</u>: The site was part of a Kraft Process paperboard/linerboard manufacturing facility that operated from 1947 to 1991. All the buildings and structures have been removed from the site (1996-2005) with regulatory oversight provided by DTSC. A draft Removal Workplan is being submitted for the Groundwater cleanup in conjunction with the Central Regional Water Quality Control Board. The primary Contaminant of Concern is tetrachloroethylene (PCE).

The RAW was developed based on recommendations for remedial action as described by the In-Situ Chemical Oxidation Pilot Study (ISCO) that was done in September 2010 and the reports (i.e. Second Quarter 2011, In-Situ Chemical Oxidation (ISCO) Pilot Study, East Mill) prepared by PES.

<u>Project Activities</u>: The RAW, which is entitled *Removal Action Work Plan, PCE Groundwater Plume, East Mill, Former Gaylord Container Corporation Facility, Antioch, California*, describes a removal action implementation of injecting sodium permanganate into the upper zone to eliminate the PCE and daughter products in both the Upper and Lower Zones of groundwater at the site. Groundwater in the area flows slowly and therefore, the ISCO compounds and VOCs will be depleted without migrating outside of the plume area.

Name of Public Agency Approving Project: California Environmental Protection Agency, Department of Toxic Substances Control

Name of Person or Agency Carrying Out Project: Forestar (USA) Real Estate Group, Inc. and PES Environmental, Inc.

Exemption Status: (check one)

	·
	Ministerial [PRC, Sec. 21080(b)(1); CCR, Sec. 15268]
	Declared Emergency [PRC, Sec. 21080(b)(3); CCR, Sec.15269(a)]
	Emergency Project [PRC, Sec. 21080(b)(4); CCR, Sec.15269(b)(c)]
$\boxtimes$	Categorical Exemption: [Class 30 Categorical Exemption Cal. Code Regs., Title 14, §15330]
	Statutory Exemptions: [State code section number]
П	General Rule (CCR, Sec. 15061(b)(3)]

Exemption Title: Minor actions to prevent, minimize, stabilize, mitigate or eliminate the release or threat of release of hazardous waste or hazardous substances.

<u>Reasons Why Project is Exempt</u>: The project will not result in the potential for significant environmental effects and provides overall protection of human health because of the following:

- 1. The project is a cleanup action to be taken to prevent, minimize, stabilize, mitigate, or eliminate the release or threat of release of a hazardous waste or substance.
- 2. The project is a removal action costing \$ 2 million or less.
- 3. The project will not be located on a site which is included on any list compiled pursuant to Cal. Gov. Code §65962.5 (http://calepa.ca.gov/sitecleanup/corteselistIdefault.htm)
- 4. The project will not have a significant effect on the environment due to unusual circumstances.
- 5. The project will not cause a substantial adverse change in the significance of a historical resource.
- 6. The project will not require onsite use of a hazardous waste incinerator or thermal treatment unit.

- 7. The project will not require the relocation of residences or businesses.
- 8. The project will not involve the potential release into the air of volatile organic compounds.
- 9. A Health and Safety Plan has been prepared to protect worker safety and public health during the project.
- 10. The project will be consistent with applicable State and local environmental permitting requirements including, but not limited to: (a) water quality standards, e.g., waste discharge requirements or storm water discharge requirements issued by the State Water Resources Control Board or an appropriate Regional Water Quality Control Board; (b) air quality rules such as those governing volatile organic compounds; and (c) approved by the regulatory body with jurisdiction over the Site.
- 11. Safety measures will be implemented during the project which includes preparation of a comprehensive health and safety plan.
- 12. The sodium permanganate (ISCO compounds) and VOCs are not expected to migrate beyond the plume area

Adflume Project Manage	del' ger Signature	10/26/2011 Date
Katharine Hilf		
Project Manager Name	Brownfields and Environmental Restoration Program - Berkeley	Phone # 510-540-3817
Unit Chief	Signature	10 26 20U
Daniel Murphy		
Unit Chief Name	Brownfields and Environmental Restoration Program - Berkeley	Phone # 510-540-3772
	TO BE COMPLETED BY OPR ONLY	
Date Received For Filing and Pos	ting at OPR:	. ==

#### APPENDIX I

#### RESPONSIVENESS SUMMARY

#### **RESPONSIVENESS SUMMARY**

#### PUBLIC COMMENTS RECEIVED ON THE DRAFT REMOVAL ACTION WORKPLAN PCE GROUNDWATER PLUME

#### East Mill (Former Gaylord Container Corporation – East Mill)

October 26, 2011

#### I. Introduction

The purpose of this document is to respond to comments received regarding the Draft Removal Action Workplan (Draft RAW) for the PCE Groundwater Plume and the proposed Notice of Exemption (NOE) for the East Mill Site, located at 2603 Wilbur Avenue, Antioch, California, (see Attachment B, location map). These comments were received during a 30-day public comment period, which ran from September 23, 2011 through October 24, 2011.

The Draft RAW, proposed NOE, fact sheet, and public notice were placed in the information repository located at the Antioch Library, Circulation Desk, 501 West 18<sup>th</sup> Street, Antioch. A public notice announcing the comment period was placed in the East County - Contra Costa Times newspaper on September 23, 2011. A fact sheet, dated September 2011, discussing the Draft RAW and proposed NOE, was mailed to local residents, adjacent property owners, businesses, selected city staff and elected officials on September 21, 2011, in English.

No comments were received during the public comment period. DTSC considers all comments before final approval of the RAW. The Responsiveness Summary will be incorporated into the final RAW. Copies of the fact sheet and display advertisement are included in Attachment A.

The Draft RAW proposed to reduce the PCE groundwater concentrations to the California maximum contaminant level (MCLs) by injection of in-situ chemical oxidation (ISCO) using permanganate. The site is currently vacant, fenced, and a security guard is on the property.

This Responsiveness Summary is organized as follows:

- Section I is the introduction.
- Section II lists the comments received and provides responses to those comments.
- Attachment A provides copies of the fact sheet and display advertisements.
- Attachment B provides a map showing the location site.

Copies of the Final RAW and other site-related documents are available for review at:

Department of Toxic Substances Control 700 Heinz Avenue
Berkeley, California 94710-2737
(510) 540-3800
Hours: By appointment, Monday through Friday (excluding State holidays)
8:00 a.m. to 5:00 p.m.

Antioch City Library Circulation Desk 501 West 18<sup>th</sup> Street Antioch, California 94531 Call (925) 757-9224 for Hours of operation

#### II. Comments and Responses

This section provides responses to written comments received during the public comment period. No comments were received.

#### **LIST OF COMMENTERS**

There were no comments received for East Mill during the public comment period of September 23 to October 24, 2011.

#### **Attachment A**



# PUBLIC NOTICE DRAFT REMOVAL ACTION WORKPLAN

The former Gaylord Container Corporation Facility – East Mill PCE Groundwater Plume Antioch, California



PUBLIC COMMENT PERIOD: September 23, 2011 to October 24, 2011

WHAT'S BEING PROPOSED? – The Department of Toxic Substances Control (DTSC), announces a 30-day public comment period on the draft Removal Action Workplan (RAW) for the former Gaylord Container Corporation Facility – East Mill PCE Groundwater Plume, located at 2603 Wilbur Avenue in unincorporated Antioch, Contra Costa County, California. Environmental investigations conducted found the groundwater is affected with tetrachloroethylene (PCE) at the Non-Processing Area of the East Mill site. The draft RAW describes the investigations, the contamination discovered, and proposed alternative cleanup methods for the contaminated groundwater. DTSC is the lead agency conducting the oversight of the RAW.

CALIFORNIA ENVIRONMENTAL QUALITY ACT – NOTICE OF EXEMPTION: Based on the conditions of the proposed RAW, DTSC determined that the response action qualifies for a General Rule Exemption, and intends to issue a Notice of Exemption (NOE) when the Final RAW is approved to comply with the California Environmental Quality Act (CEQA) requirements. The draft NOE will be made available for public review, along with other supporting documents in the information repositories.

**How Do I Participate?** – DTSC encourages you to take this opportunity to learn more about the project and to provide comments on the removal action proposed in the draft RAW during the 30-day public comment period **September 23, 2011 through October 24, 2011.** All comments must be postmarked or received **by October 24, 2011.** Send comments to:

Katharine Hilf DTSC Project Manager 700 Heinz Avenue Berkeley, California 94710 KHilf@dtsc.ca.gov

WHERE DO I GET MORE INFORMATION? – Copies of the draft RAW and other site-related documents are available at the following information repositories:

City of Antioch Public Library 501 W. 18<sup>th</sup> Street Antioch, California 94531 (925) 757-9224 (Call for hours) DTSC - File Room 700 Heinz Avenue Berkeley, California, 94710-5826 (510) 540-3800 (By appointment only)

Additional information for the former Gaylord Container Corporation Facility – East Mill PCE Groundwater Plume is available online at DTSC website <a href="www.dtsc.ca.gov">www.dtsc.ca.gov</a> or through DTSC's EnviroStor database system at <a href="http://www.envirostor.dtsc.ca.gov/public/">http://www.envirostor.dtsc.ca.gov/public/</a>

**CONTACT INFORMATION:** For questions or additional information regarding the former Gaylord Container Corporation Facility – East Mill PCE Groundwater Plume, please contact the following staff:

For The Project
Katharine Hilf
DTSC Project Manager
(510) 540-3817
KHilf@dtsc.ca.gov
Tammy Pickens
DTSC Public Participation
Specialist
(916) 255-3594
TPickens@dtsc.ca.gov

**DTSC Public Information** 

Jeanne Garcia

For Public Participation Officer (818) 717-6573 JGarical@dtsc.ca.gov. For Members of the Media



The Mission of
the Department of
Toxic Substances
Control is to
provide the highest
level of safety, and
to protect public
health and the
environment from
toxic harm





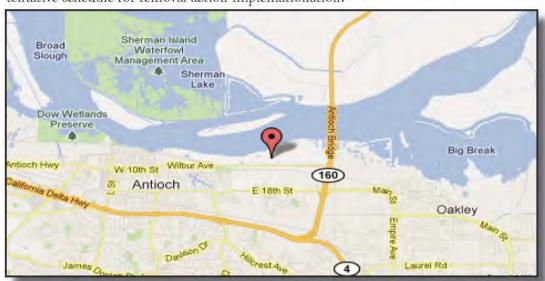
#### Fact Sheet, September 2011

# Removal Action Work Plan for the former Gaylord Container Corporation Facility - East Mill PCE Groundwater Plume

A draft Removal Action Workplan (RAW) has been prepared for the former Gaylord Container Corporation Facility, East Mill, located 2303 Wilbur Avenue in unincorporated Antioch, Contra Costa County, California. The goal of this removal action is to reduce the PCE groundwater concentrations to the water quality objective, at the Non-Processing Area (NPA) of the East Mill site.

The NPA is one of eight areas of interest (AOIs) identified on the East Mill facility during previous remedial investigations. The removal action will be conducted under the oversight of the Department of Toxic Substance Control (DTSC).

The purpose of the draft RAW is to identitfy removal action goals, identifies and anlyzes removal action alternative, recommend a rmoval action alternative, provide an implementation plan for the recommended removal action alternative, and provide a tentative schedule for removal action implemationation.



#### PUBLIC COMMENT PERIOD September 23, 2011 to October 24, 2011

DTSC encourages you to review and comment on the draft RAW for former Gaylord Container Corporation East Mill facility. DTSC is holding a 30-day public comment period beginning September 23, 2011 and ending October 24, 2011. All comments and emails must be comments must be received by October 24, 2011. Submit your comments to:

Katharine Hilf DTSC Project Manager 700 Heinz Avenue Berkeley, California 94710 KHilf@dtsc.ca.gov



#### SITE HISTORY AND OPERATIONS

The former Gaylord Container Corporation East Mill facility The East Mill facility covers approximately 80 acres, and most of the surrounding area was undeveloped or used for agriculture. The majority of the site is vacant with the exception of building foundations and portions of surface hardscaped areas remaining from past industrial paper manufacturing operations.

Between 1947 and early 1991, the site operated as a paperboard/linerboard manufacturing facility utilizing the Kraft process to convert wood chips into pulp for the manufacturing of virgin fiber linerboard. Other activities on the East Mill were in support of the pulping operation and the paper machine operations. The buildings and structures within the NPA were formerly used for:

- Finishing of paper products
- Packing, shipping, and transfer of paper products off site; and
- Administrative/maintenance functions. Buildings within the NPA included: a paper machine building, a paint shop, a jute plant, machine/automotive/carpentry shops, the additive building, an oxygen distribution building, and a carton plant building. Most of the aboveground structures were demolished in the mid- to late 1990s and the remaining aboveground structures were demolished in 2004 and 2005. Underground pipelines associated with the former paper and pulp facility were inspected, cleaned where possible and abandoned in place, or removed if their condition precluded cleaning. Concrete foundations and footings associated with former structures remain in some areas of the site. Demolition of the below-ground features on the East Mill occurred from 2005 to 2008 with the removal or cleaning of pipelines, underground tanks, and other subsurface features.

#### **ENVIRONMENTAL INVESTIGATIONS**

PCE usage at the site was never documented. Previous investigations to evaluate potential PCE source areas and to define the extent of the PCE groundwater plume have included an active soil vapor survey, membrane interface probe (MIP) investigation, and cone penetrometer testing. Soil vapor concentrations from the 2009 soil vapor survey were generally low and did not conclusively identify a source.

Based on the distribution and extent of the PCE plume in groundwater, it is possible that multiple sources were present. A likely release scenario is that PCE was released into the upper zone sands, leaked through the fine-grained unit and distributed into the lower zone sands. The PCE groundwater plume within the lower zone is more laterally extensive (i.e., towards the river) than within the upper zone.

#### **Draft Removal Action Workplan**

The draft RAW summarizes previous environmental investigations and identifies the preferred cleanup alternative to prevent or reduce potential risks to public health and the

environment. Several cleanup alternatives were considered and evaluated on the basis of their effectiveness, ability to be implemented, and cost. DTSC will review and consider comments received from the public during the 30-day public comment period before making a final decision to approve, modify, or disapprove the preferred cleanup alternative

#### PROPOSED CLEANUP OPTIONS

The cleanup options evaluated in the East Mill RAW are:

- No action
- In-situ Chemical Oxidation (ISCO) using permanganate
- In-situ bioremediation or enhanced reductive dechlorination using hydrogen release compound (HRC)

Based on the removal action alternative analysis, Alternative 2, ISCO using permanganate, is the recommended removal action alternative.

Under this alternative, PCE-affected groundwater in the upper and lower aquifer zones will be treated by ISCO using permanganate. This alternative was selected as ISCO has been successfully tested at the site during the pilot study. ISCO treatment requires contact between the oxidant (in this case permanganate) and PCE, and can result in complete mass removal in a relatively short period of time. However, the area treated can be re-impacted either through x diffusion effects or flow of PCE-affected groundwater from an up gradient area.

case permanganate) and PCE, and can result in complete mass removal in a relatively short period of time. However, the area treated can be reimpacted either through matrix diffusion effects or flow of PCE-affected groundwater from an upgradient area.

The byproducts of ISCO treatment of PCE using permanganate include: water, carbon dioxide, chloride, and manganese dioxide. During treatment, the oxidative/reductive state of the aquifer becomes more oxidative, which can cause the mobilization of metals by increasing their valence state.

Distribution of permanganate throughout the upper and lower zone treatment areas will be completed in phases, with the initial phase of injection in the upper zone. Grab groundwater sampling will be performed following the initial injection to assess the lateral distribution of the permanganate solution in the upper zone and to confirm that the permanganate solution has penetrated the fine-gained unit. Following the initial injection and grab groundwater sampling, additional permanganate solution may be injected into the upper zone and/or lower zone, followed by additional grab groundwater sampling to confirm the desired permanganate distribution. Once the permanganate reaches the lower zone, permanganate transport will be controlled by the natural groundwater flow. A post-injection groundwater monitoring program will be implemented to monitor the permanganate treatment performance.

# CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Based on the conditions of the proposed RAW, DTSC determined that the response action qualifies for a Categorical Exemption and intends to issue a Notice of Exemption (NOE) when the Final RAW is approved to comply with the CEQA requirements. The draft NOE will be made available for public review, along with other supporting documents in the information repositories.

#### **RESPONSE TO COMMENTS**

After the close of the 30-day public comment period, DTSC will prepare a 'Response to Comments' to address all comments received from the community. Each person who submits comments regarding the proposed cleanup activities will receive a copy of DTSC's 'Response to Comments'. A copy of DTSC's 'Response to Comments' will also be available for review in the information repositories. The groundwater cleanup project is anticipated to require three to four months to complete and is expected to commence during October 2011.

#### INFORMATION REPOSITORIES

The RAW and other site-related documents are available for review at the following locations:

City of Antioch Public Library 501 W. 18th Street Antioch, California 94531 (925) 757-9224 - Call for hours

DTSC -Berkeley Regional Office 700 Heinz Avenue Berkeley, California 94710 (510) 540-3800 - Call for appointment

#### FOR MORE INFORMATION

Please contact any of the following individuals with any questions or concerns you may regarding the former Gaylord Container Corporation - East Mill.

If you need more information or have questions regarding this fact sheet, the RAW, or Site, please contact:

DTSC Project Manager, Katharine Hilf at (510) 540-3817 or KHilf@dtsc.ca.gov

Public Participation/Community Involvement: Tammy Pickens, DTSC Public Participation Specialist at (916) 255-3594 or TPickens@dtsc.ca.gov

Questions regarding the media, contact: Jeanne Garcia, DTSC Public Information Officer (818) 717-6573 or <u>JGarcia1@dtsc.ca.gov</u>

H - 477

3

The byproducts of ISCO treatment of PCE using permanganate include: water, carbon dioxide, chloride, and manganese dioxide. During treatment, the oxidative/reductive state of the aquifer becomes more oxidative, which can cause the mobilization of metals by increasing their valence state.

Distribution of permanganate throughout the upper and lower zone treatment areas will be completed in phases, with the initial phase of injection in the upper zone. Grab groundwater sampling will be performed following the initial injection to assess the lateral distribution of the permanganate solution in the upper zone and to confirm that the permanganate solution has penetrated the fine-gained unit. Following the initial injection and grab groundwater sampling, additional permanganate solution may be injected into the upper zone and/or lower zone, followed by additional grab groundwater sampling to confirm the desired permanganate distribution. Once the permanganate reaches the lower zone, permanganate transport will be controlled by the natural groundwater flow. A post-injection groundwater monitoring program will be implemented to monitor the permanganate treatment performance.

#### CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Based on the conditions of the proposed RAW, DTSC determined that the response action qualifies for a Categorical Exemption and intends to issue a Notice of Exemption (NOE) when the Final RAW is approved to comply with the CEQA requirements. The draft NOE will be made available for public review, along with other supporting documents in the information repositories.

#### **RESPONSE TO COMMENTS**

After the close of the 30-day public comment period, DTSC will prepare a 'Response to Comments' to address all comments received from the community. Each person who submits comments regarding the proposed cleanup activities will receive a copy of DTSC's 'Response to Comments'. A copy of DTSC's 'Response to Comments' will also be available for review in the information repositories. The groundwater cleanup project is anticipated to require three to four months to complete and is expected to commence during October 2011.

#### INFORMATION REPOSITORIES

The RAW and other site-related documents are available for review at the following locations: City of Antioch Public Library 501 W. 18th Street Antioch, California 94531

(925) 757-9224 - Call for hours DTSC -Berkeley Regional Office 700 Heinz Avenue Berkeley, California 94710 (510) 540-3800 - Call for appointment

#### FOR MORE INFORMATION

Please contact any of the following individuals with any questions or concerns you

may regarding the former Gaylord Container Corporation - East Mill.

If you need more information or have questions regarding this fact sheet, the RAW, or Site, please contact:

DTSC Project Manager, Katharine Hilf at (510) 540-3817 or <u>KHilf@dtsc.ca.gov</u> Public Participation/Community Involvement:

Tammy Pickens, DTSC Public Participation Specialist at (916) 255-3594 or TPickens@dtsc.ca.gov

Questions regarding the media, contact: Jeanne Garcia, DTSC Public Information Officer (818) 717-6573 or <a href="mailto:JGarcia1@dtsc.ca.gov">JGarcia1@dtsc.ca.gov</a>

TDD users can obtain information about the Site by using the California State Relay Service (800) 735-2929 to reach the Public Participation Specialist. Ask them to contact Tammy

#### NOTICE TO THE HEARING IMPAIRED

TDD users can obtain information about the Site by using the California State Relay Service (800) 735-2929 to reach the Public Participation Specialist. Ask them to contact Tammy Pickens at (916) 255-3594 regarding the former Gaylord Container Corporation East Mill facility in Antioch, California.

#### NOTICE TO THE HEARING IMPAIRED

Pickens at (916) 255-3594 regarding the former Gaylord Container Corporation East Mill facility in Antioch, California.

# Would you like to be added or removed from the former Gaylord Container Corporation Facility - East Mill Mailing list?

If you would like to be added or removed from the mailing list for the former Gaylord Container Corporation Facility - East Mill, please complete the information below and return to Tammy Pickens, 8800 Cal Center Drive, Sacramento, CA 95826. You can e-mail your request to be added or removed from the mailing list to TPickens@dtsc.ca.gov.

Please remove my name from the mailing list	_Please add my name to the
mailing list	
Name:	
Address:	
City/State/Zip:	
Note: While this mailing list is solely for DTSC use, the list is consid	lered a public record

### Comment Form for the former Gaylord Container Corporation Facility - East Mill

If you use this form to send us your comments, please include your name and address. All written comments must be postmarked on October 24, 2011. Please send this form to:

# You may also email this same information to: KHilf@dtsc.ca.gov Name: \_\_\_\_\_ Address: \_\_\_\_\_ Affiliation (if any): \_\_\_\_\_ Phone number (optional): \_\_\_\_\_ Comments: (If you need more space, please feel free to use another sheet of paper)

Katharine Hilf DTSC Project Manager 700 Heinz Avenue Berkeley, California 94710

### **Attachment B**





Aerial photograph: Google Earth, March 2008



Site Vicinity Map Removal Action Workplan, PCE Groundwater Plume Former Gaylord Container Corporation - East Mill Antioch, California

PLATE

1

### **DISTRIBUTION**

# FINAL REMOVAL ACTION WORK PLAN PCE GROUNDWATER PLUME EAST MILL FORMER GAYLORD CONTAINER CORPORATION ANTIOCH, CALIFORNIA

### **OCTOBER 27, 2011**

COPY NO. \_\_\_\_

		Copy No.
1 Copy	California Department of Toxic Substances Control-Region 2 700 Heinz Street, Suite 200 Berkeley, California 94710	1
	Attention: Ms. Katharine Hilf	
1 Copy	California Regional Water Quality Control Board, Central Valley Region 11020 Sun Center Dr, Suite 200 Rancho Cordova, California 95670	2
	Attention: Mr. Siddharth Sewalia	
1 Copy	Forestar Group 6300 Bee Cave Road, Building Two, Suite 500 Austin, Texas 78746-5149	3
	Attention: Mr. Bill Goodrum	

### **DISTRIBUTION**

(Continued)

### **FINAL**

### REMOVAL ACTION WORK PLAN PCE GROUNDWATER PLUME

### **EAST MILL**

### FORMER GAYLORD CONTAINER CORPORATION ANTIOCH, CALIFORNIA

### **OCTOBER 27, 2011**

COPY NO. \_\_\_\_

		Copy No.
1 Copy	Forestar (USA) Real Estate Group, Inc. P.O. Box 10 Antioch, California 94509	4
	Attention: Mr. Henry Thatcher	
4 Copies	PES Job Files	5 - 8
1 Copy	Unbound Original	9

### APPENDIX D QUALIFICATIONS OF PREPARERS

CHERI PAGE BASELINE

heri Page is a senior geologist and a Stateregistered professional geologist. She has managed environmental projects throughout the San Francisco Bay Area for the past 26 years.

Ms Page has managed environmental evaluations of highways, lumber mills, landfills, chemical plants, semi-conductor manufacturing plants, dry cleaners, underground storage tanks, agricultural properties, mixed use, and residential properties. Soil and groundwater investigations have included managing groundwater monitoring installation, definition of aquifer characteristics, groundwater flow, definition of vertical and horizontal extent of chemical plumes, design of soil sampling plans, implementing quality assurance/quality control programs. development of appropriate remedial actions.

Ms. Page is experienced in regulatory agency negotiation and compliance. Many of her project sites have been successfully remediated or closed by the lead regulatory agency using risk-based remediation approaches.

Ms. Page has performed third-party reviews of environmental documents for litigation support. She has also performed third-party reviews of environmental investigation and clean-up costs for environmental insurers.

Ms. Page also performs geological and hazardous materials impact evaluations as part of the CEQA process for project-specific and program EIRs.

Ms. Page has conducted over 100 Phase I and II Environmental Site Assessments for property buyers, sellers, developers, and lenders. She is an expert on standard industry practice and current ASTM standards for Phase I reports.

#### **Recent Projects**

- Doyle Drive Reconstruction Project, 2008-Present; San Francisco, Task Manager, site investigation for waste classification and soil reuse evaluation.
- Doyle Drive Reconstruction Project, 2008 Present; Task Manager for groundwater characterization and construction dewatering.
- Apple Campus Cupertino Project EIR, 2011; Geology, Soils, and Seismicity and Hazards and Hazardous Materials sections.

M.S., Geology, Cal State Hayward B.S., Geology, Georgia State University PG No. 5288 40-hour OSHA training 26 years of experience



Presentations and Publications

Compliance with new 2005 ASTM Standard for Phase I Environmental Site Assessments, Kleinfelder Annual Meeting, 2006.

BASELINE

ane Nordhav is the principal of BASELINE. She is the principal-in-charge for BASELINE related hazardous projects to materials management, development of remedial actions, characterizations, and CEQA/NEPA documentation. She performs QA/QC functions for all projects at BASELINE. As principal investigator, she has managed and conducted groundwater investigations and remediation on major Superfund sites and local brownfields sites in California.

Through her work, she has developed an extensive working knowledge of regulatory requirements and established working relationships with regulatory agency staff on the state and local levels. She routinely works with Regional Water Quality Control Board, Department of Toxic Substances Control, and local agency staff to arrive at appropriate goals for risk-based cleanup of soil and groundwater resources.

She has managed major environmental audits and developed environmental programs for cities, ports, and industrial clients; her work has included development of strategies for waste management and minimization, and UST compliance programs. She also routinely provides litigation support and expert witness services to clients on sites that have been affected by historic land uses and require cleanup prior to future productive uses. In addition, Ms. Nordhav has been the project manager for the preparation of major environmental documents in California, including EIRs for controversial projects, ranging from open pit mines, hazardous waste disposal facilities, water supply infrastructure projects, and new towns.

#### **Recent Projects**

- Sacramento Trapshoot Club, investigation, remediation, agency negotiations, Project Manager, 2004-2010
- New Crystal Springs Bypass Tunnel EIR, San Francisco Public Utilities Commission, Project Manager, 2006-2008.
- Bayview Transportation Improvements Project EIR/EIS, Hazardous Materials and

- Water Quality Technical Studies, Project Manager, 2004-present
- Port of Oakland, Berths 25 and 26, investigation, remediation, agency negotiations, 2002-present

M.S., Geology, Cal State Hayward B.A., Geology, U.C. Berkeley 40-hour OSHA training PG No. 4009 33 years of experience



#### **Presentations and Publications**

Nordhav, Yane, 1998, Are Geologic and Seismic Impacts Significant, Unavoidable, or Mitigatable, in AEP Environmental Monitor, Summer.

Nordhav, Yane, 1997, Identification of Geologic Impacts - UC Berkeley, guest lecturer for Conservation of Natural Resources Department.

Nordhav, Yane, 1997, Moderator - Panel on Changes in Hazardous Waste Management, Association of Environmental Professionals Annual Meeting, San Francisco.

Schoenholz, Dan and Yane Nordhav, 1995, Construction of a Movie Theater at Lot 12: A Case Study in Reuse of a Former Manufactured Gas Plant Site; in Land Contamination and Reclamation 3(4).

Nordhav, Yane, 1992, Phase I and II Investigations and Land Use Decisions, presented at the Annual Meeting of the National Association of Housing and Redevelopment Officials, San Francisco, September.



## APPENDIX I SUPPLEMENT TO MARCH 4, 2013 COMMENTS



### **Delta Diablo Sanitation District**

OFFICE AND TREATMENT PLANT: 2500 PITTSBURG-ANTIOCH HIGHWAY, ANTIOCH, CA 94509-1373
TEL.: (925) 756-1900 ADMIN. FAX: (925) 756-1961 MAINT. FAX: (925) 756-1963 OPER. FAX: (925) 756-1962 ENGINEERING SVCS. FAX: (925) 756-1960 www.ddsd.org

May 2, 2013

Ms. Mindy Gentry, Senior Planner Economic Development Department City of Antioch P.O. Box 5007 Antioch, CA 94531

SUBJECT:

NORTHEAST ANTIOCH REORGANIZATION DRAFT MITIGATED NEGATIVE DECLARATION – SUPPLEMENT TO MARCH 4, 2013

COMMENTS

Dear Ms. Gentry:

This is written to respond to questions raised about Delta Diablo Sanitation District's ability to provide wet weather wastewater conveyance capacity to serve the reorganization area. As noted previously, the District has wastewater conveyance and treatment facilities planned and under construction to increase system capacity. The District collects Capital Facilities Capacity Charges to build capacity as it is consumed by new connections. Capacity is provided through facilities constructed by the District as prescribed in its Conveyance and Treatment Plant Master Plans. These Master Plans use the City planning data for the communities in the District service area. In the 2010 District Conveyance System Master Plan Update, the reorganization area was included in the study. The reorganization area is within District Sewer Basins 3-6 through 3-9 which have a combined contributing area of 3,387 acres.

Peak wet weather analysis is also included as part of the 2010 Conveyance and 2011 Treatment Plant Master Plans. District Sewer Basins 3-6 through 3-9 have an existing peak wet weather estimated flow of 5.59 mgd which will increase to 8.94 mgd at buildout. The "design" wet weather event simulated in the hydraulic model is the storm of December 31, 2005 as it was a notable event throughout the San Francisco Bay Area, and is estimated to have a peak flow recurrence frequency of 10 to 20 years in the District area based on analysis of historical flow and rainfall data. To verify the flows in the District conveyance system and calibrate the hydraulic model, a two-month flow monitoring program was conducted during the winter of 2008/09. The hydraulic model simulates a dynamic storm event and includes the District pipelines, pump stations, and wet weather event equalization storage basins in its analysis.

In answer to the question of sanitary sewer overflows (SSOs), the District had one SSO incident (California Integrated Water Quality System SSO event ID 785075) downstream of the reorganization area in the past year. This incident was due to an air relief valve malfunction on a pipeline and was not a capacity related problem. The valve has been replaced.

Ms. Mindy Gentry, Senior Planner May 2, 2013 NORTHEAST ANTIOCH REORGANIZATION DRAFT MITIGATED NEGATIVE **DECLARATION** Page 2

If you have any questions, or need further clarification, please contact me at (925) 756-1939.

Sincerely,

Patricia Chapman Associate Engineer

PC:pec

cc:

Ron Bernal, City of Antioch

Victor Carneglia, City of Antioch Lily Gilbert, Circlepoint Dean Eckerson, Principal Engineer, DDSD

Caroline Quinn, Engineering Services Director, DDSD Amanda Roa, Environmental Compliance Engineer, DDSD

DEV.03-DEVDOC-818

Chron