

Appendix 24A
Draft Phase 1 Initial Site Assessment

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24A.0 Executive Summary

A Phase I Initial Site Assessment (ISA) was conducted for each of the three proposed alignments associated with the Bay Delta Conservation Plan (BDCP) Environmental Impact Report/Environmental Impact Statement (EIR/EIS) Project located in Sacramento, San Joaquin, Solano, Contra Costa, and Yolo counties, in California. The proposed alignments include an East Alignment Alternative (for which there are two proposed projects), the West Alignment Alternative, and the Through Delta Alignment Alternative. For this ISA, the limits of investigation included the three identified build alternative corridors, and a buffer around each corridor. Figure 1 in Appendix A provides the ISA identified sites for the study area.

The region is a lowland inland delta contained within a structural basin bound to the north and east by the Sierra Nevada mountain range, to the west by a series of coastal ranges, and to the south and southwest by the Diablo range. The Delta itself consists of flatlands and wetlands formed by the confluence of the Sacramento and San Joaquin Rivers and their tributaries. The generally Quaternary-age sediments deposited by these rivers are thousands of feet in depth, and create rich wetlands, fertile soil, and an abundant variety of plant and animal life.

The current state of the Delta is a developed, multi-use landscape used primarily for agriculture, with secondary uses for recreation, habitat conservation, industrial manufacturing, and residential. Transportation-related uses include highways, railroads, canals and ship traffic on navigable waterways.

This Phase I ISA identifies Recognized Environmental Conditions (REC) for the study area that may adversely affect construction or project alignment right-of-way acquisition (if required). This ISA was conducted in general conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E 1527-05. Any exceptions to or deletions from these ASTM practices are described later in this report.

This ISA includes a summary of the site reconnaissance conducted March 2–5, 2009, a review of environmental databases, and a review of historical data sources. No interviews were conducted for this stage of the assessment.

The ISA process resulted in the following findings and conclusions:

- The three alignments traverse agricultural lands, canals, rivers, and towns. The East Alignment parallels Interstate 5 to the east for much of its length. The Through Delta Alignment is the least developed of the three alignments. The West Alignment parallels the Deep Ship Channel along its north end, includes the town of Rio Vista, and ends in the Antioch area.
- Although the ISA process is designed to identify RECs, the limited scope of this ISA allows only for recognition of “sites of concern.” Many of these sites constitute RECs for the study area, while others that might be RECs have insufficient information at this time to make that determination. A final determination of whether a site constitutes a REC will be made later in the process, when a corridor-specific ISA is performed that includes more detailed site-specific investigation.

- 1 • **East Alignment** – Environmental Data Resources, Inc. (EDR) identified 18 sites along the
2 corridor considered to be of concern, or that may pose potential risk in the event properties are
3 acquired for future use. Four additional sites were identified during the site reconnaissance.
4 Locations and additional risk details are provided in Appendix A, Figures 2 and 3. The EDR
5 Report is provided electronically in Appendix C.
- 6 • **Through Delta Alignment** – The EDR Report identified two sites along the corridor which are
7 considered to be of concern, or that may pose potential risk in the event the property is acquired
8 for future use. No other sites were identified during site reconnaissance. Locations and
9 additional risk details are provided in Appendix A, Figure 4.
- 10 • **West Alignment** – The EDR Report identified 34 sites along the corridor, which are considered
11 to be of concern to the project, or that may pose potential risk in the event the property is
12 acquired for future use. Five additional sites were identified during site reconnaissance.
13 Locations and additional risk details are provided in Appendix A, Figures 5 through 8.
- 14 • In a large agricultural area such as the study area, it is anticipated that residual pesticide,
15 herbicide and fertilizer components may be encountered anywhere in the subsurface. In
16 addition, in the urban areas such as Rio Vista and Walnut Grove, a substantial number of sites
17 were identified as having released petroleum or other chemicals (such as dry cleaning solvents)
18 to the subsurface. As a result, additional investigation may be required where specific properties
19 are planned for acquisition. It has been the experience of HDR personnel that despite the closure
20 and removal of underground storage tanks (UST), residual contamination may exist, even after
21 remedial activities have ceased. Similarly, locations of former or historic automotive repair
22 facilities may also contain varying degrees of contamination due to operations and waste stream
23 disposal prior to applicable regulations. This impact of these chemical releases cannot be
24 determined at this time.
- 25 • Mercury has been identified as a chemical of concern in Delta area sediments, resulting from
26 releases from gold and mercury mining operations in the watersheds upstream of the Delta. The
27 distribution and significance of this chemical contribution on the study area cannot be
28 determined at this time.

29 Recommendations included in this report were developed through the investigative procedures
30 described in Section 1.2, Scope of Services, Significant Assumptions, and Limitations. These findings
31 should be reviewed within the context of the limitations described. Based on the locations and
32 specific details of the identified risk sites, HDR identified RECs within the study area. This conclusion
33 has led to the inclusion of the following statement as required by ASTM E 1527-05:

34 HDR has performed a Phase I Environmental Site Assessment (ESA) in general conformance with
35 the scope and limitations of ASTM E 1527-05 for the alignments associated with the BDCP EIR/EIS
36 Project in California. Any exceptions to or deletions from these practices are described in the
37 following sections of this report. This report has identified evidence of RECs in connection with the
38 study area. Based on this conclusion, HDR makes the following recommendations:

39 **24A.1.1 Recommendation**

40 The sites of concern identified in this ISA should be evaluated further in the form of site-specific
41 ASTM-compliant Phase I investigations when one of the three alignments is chosen, and information
42 regarding construction and property acquisition are available. Some sites may require completion of

Phase II studies (drilling and sampling) to complete the due diligence task, and to determine whether actionable concentrations of contaminants exist. The Phase II work would be based upon information gathered during the Phase I ISA process.

Data gaps identified in this report should be investigated further. These gaps will require additional historical information on specific sites and communities, historic pesticide use, additional assessment of mercury impacts from mining in the Sierra and Coastal Ranges, and potential impacts related to hazardous materials transportation.

24A.2 Introduction

24A.2.1 Purpose and Involved Parties

The purpose of this corridor level ISA is to identify potential risk sites for contamination from a wide variety of potential sources. The ISA process generally conforms to the ASTM Phase I (ESA process (ASTM practice E 1527-05), with an end result of identification of “recognized environmental conditions.” An REC is defined by ASTM Practice E 1527-05 as:

The presence or likely presence of any hazardous substances or petroleum products on a project site under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the project site or into the ground, groundwater, or surface water of the project site. The term includes hazardous substances or petroleum products even under conditions of storage and use in compliance with local and state laws and regulations. The term is not intended to include de minimus conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of regulatory governmental agencies. Conditions determined to be de minimus are not recognized environmental conditions.

The ISA for the three proposed alignments associated with the BDCP EIR/EIS Project has been prepared as a supporting technical report for the EIR/EIS.

24A.2.2 Scope of Services, Significant Assumptions, and Limitations

The scope of services for this ISA consisted of the following:

- Provide a description of the project area including current land uses.
- Provide a general description of the topography, soils, geology, and groundwater flow direction.
- Review reasonably ascertainable and reviewable regulatory information published by federal, state, local, and/or environmental agencies pertaining to the project area.
- Review historical data sources for the project area, including aerial photographs, topographic maps, fire insurance maps, city directories, or other readily available development data.
- Conduct an area reconnaissance for the potential alternative alignments, using both ground-and aerial-platform survey modes. The reconnaissance was performed by qualified hazardous materials professionals who meet the ASTM definition of “Environmental Professionals”.
- Prepare a written report of methods, findings, and conclusions.

NOTE: The ASTM requirement for interviews with site occupants was not conducted within this scope of work. The interviews with site occupants would be met in a later phase of the project, once an alternative is selected and advanced for more detailed study.

The goal of this scope of services is to assist the user in identifying conditions in the study area that may indicate risks regarding hazardous materials storage, disposal, or other impacts. The resulting report may qualify the user for relief from liabilities as one of three “defenses” identified in the 2002 Brownfields Amendments to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 9607 (AAI subsections). These three defenses include:

- The “innocent landowner” defense to potential liabilities under 42 United States Code [U.S.C.] § 9601.
- The “contiguous property owner” defense pursuant to 42 U.S.C. § 9607q.
- The “bona fide prospective purchaser” defense pursuant to 42 U.S.C. §9607r.

Federal regulations at 40 Code of Federal Regulations [CFR] Part 312, promulgated by the United States (U.S.) Environmental Protection Agency (USEPA), require that liability releases be based (in part) on completion of All Appropriate Inquiries (AAI) prior to purchase of a property. Those inquiries are documented by Phase I reports or ESAs of which this ISA is a technical equivalent. The USEPA has agreed that the recently developed ASTM guidance (ASTM Practice E 1527-05) adequately addresses AAI requirements.

A user is defined by ASTM Practice E 1527-05 as the party seeking to use Practice E 1527 to complete an ISA of the project area and may include a potential purchaser of land in the project area, a potential tenant of the project area, an owner of land in the project area, a lender, or a project area manager. For the BDCP EIR/EIS Project, the proposed use of the ultimately selected site for the project qualifies them as a “user” under the “project area manager” definition. Investigative areas not included in the standard ASTM ISA scope include: asbestos, lead-based paint, lead in drinking water, radon or urea formaldehyde, wetland issues, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines. The scope of services for ISA projects also does not include the completion of soil borings, the installation of groundwater monitoring wells, or the collection of soil or groundwater samples.

HDR has made the following assumptions:

- Data gathered from public information sources (i.e., libraries or public regulatory agencies) are complete, accurate and reliable.
- Observed or indicated site operations reflect potential for releases, and no intentional concealment of environmental conditions or releases has occurred.
- Published geologic information and site observations made by the environmental professional are used to develop concepts for likely contaminant migration pathways in the subsurface. These concepts, developed by the Environmental Professional, are limited in accuracy and are generally cross-referenced with existing information about similar sites and environmental releases in the area.
- Regulatory information is limited to sites discovered after the late 1980s because reliable records were not kept by regulatory agencies prior to that time frame.

- Lack of specific site access for inspection of interior spaces is recognized as a limitation in the ISA level of analysis. Large warehouses, factories, barns, etc. may contain sources of contamination that are unreported or unregulated. Later phases of investigation may be necessary to address these issues.

Where a REC has resulted from historical uses or conditions, but apparently no longer persists at the site, the term “historical REC” is used.

The findings and conclusions presented in this report are based on the procedures described in ASTM Practice E 1527-05, informal discussions with various agencies, a review of the available literature cited in this report, conditions noted at the time of this ISA, and HDR’s interpretation of the information obtained as part of this ISA. The findings and conclusions are limited to the specific project and properties described in this report, and by the accuracy and completeness of the information provided by others.

An ISA cannot entirely eliminate uncertainty regarding the potential for RECs. Conducting this assessment is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a project area within reasonable limits of time and cost. In conducting its services, HDR used a standard of care ordinarily exercised under similar circumstances by reputable members of its profession practicing in the same locality. No other warranty is made or intended. This ISA generally conforms to the level of documentation required in ASTM Practice E 1527-05. Deviations from the ASTM standard included deletion of certain records sources deemed to be inapplicable, or of limited value, to the specific needs of this client. This ISA also does not include site-specific interviews, as previously explained.

24A.3 Site Description

24A.3.1 Project Location and Study Area Limits

The study area includes over 800 square miles located in five counties in Central California (Sacramento, San Joaquin, Solano, Contra Costa, and Yolo). For this ISA, the limits of investigation included the three identified build alternative corridors, and a buffer around each corridor.

24A.3.2 Vicinity Characteristics

The region is a lowland inland delta contained within a structural basin bound to the north and east by the Sierra Nevada mountain range, to the west by a series of coastal ranges, and to the south and southwest by the Diablo range. The Delta itself consists of flatlands and wetlands formed by the confluence of the Sacramento and San Joaquin Rivers and their tributaries. The generally Quaternary-age sediments deposited by these rivers are thousands of feet in depth, and create rich wetlands, fertile soil, and an abundant variety plant and animal life.

The current state of the Delta is that of a developed, multi-use landscape that is primarily used for agriculture, with secondary uses for recreation, habitat conservation, industrial/manufacturing, and residential. The Delta also includes land uses that might be categorized as “transportation-related”, including highways, railroads, canals, pipeline crossings, canals, and ship traffic on navigable waterways.

24A.3.3 Built Environment

The built environment within the study area includes a wide variety of roads, structures, transportation facilities, human-made waterways, utilities, agricultural features, and urban lands.

24A.3.4 Overview of Geology and Hydrogeology

The study area lies within the Central Valley of California, within an extensional basin located between the Sierra Nevada and the Coastal Ranges of California. The Delta is composed of thousands of feet of deposited alluvial and fluvial deposits, with source areas in the mountain ranges surrounding the basin. A detailed description of the project area's geologic setting, including specific geologic formations, depositional environments, seismicity, and fault locations is included in separate technical studies in preparation.

The study area's hydrogeologic characteristics are typical of a lowland Delta. Groundwater is shallow, and is interconnected with surface water in a complex system of gaining and losing streams. Further complicating the hydrogeology of the Delta is the extensive use of groundwater pumping and re-infiltration for agricultural purposes. A detailed description of hydrogeologic issues of the project is included in a separate technical study under preparation.

24A.4 Records Review

24A.4.1 Environmental Records Review

EDR completed a database search of Federal, State, local, and tribal environmental records for the three proposed alignments located in the study area. EDR provides summary data from regular searches of public environmental databases, and provides mapping of sites using a proprietary geo-coding methodology. The database search was produced for the study area by EDR on December 30, 2008, and included Federal, State, local, and tribal databases, as defined by ASTM E 1527-05.

Within a large geographic area that includes rural land, agricultural land, towns and cities, marinas and other recreational facilities, it is anticipated that common operations within each of these types of land uses will result in a large number of listings in a database search. The EDR Report contains information from searches of approximately 90 Federal, State and local databases. The databases that were searched by EDR included a wide range of information types—from those that track cleanup sites and catalog chemical storage—to those that track registered pesticide users, spill reports, recyclers, and ASTs. Other databases related to facilities that have air emissions or permitted waste discharges were also searched.

EDR identified more than 10,000 listings in databases within the study area and buffers. Many of the sites are listed in more than one database. HDR reviewed the types of database listings and focused on those within the study area and buffers that were likely to result in or were confirmed to have soil, groundwater or surface water contamination. Some database findings were not considered to be of concern to the project because of its scope, the distance of the listed site from the project alignment, and/or a facility's compliance with any previously noted violations. Other findings were not considered to be of concern because of the nature of the database—for example, incidents listed

on the ERNS database are responded to by local emergency responders at the time of the incident, and often do not require further action.

Upon review of the EDR Report, the following regulatory databases were determined to be relevant in identifying sites of concern within the study area and buffers. (The acronyms listed below are defined in Table 24A.3-1.):

- Within the alignment boundaries: CERCLIS, RCRA CORRACTS, LUST, SLIC, SWF/LF, WDS, Cortese, Sacramento, CS, RESPONSE, CHMIRS.
- Within the buffer boundaries: CERCLA NPL, RCRA CORRACTS, RESPONSE, SLIC.

These regulatory files were requested from the Central Valley Regional Water Quality Control Board (RWQCB). The results of the regulatory file reviews are described further in Section 3.7.

The results of the database search are summarized in Tables 24A.3-1 through 24A.3-3. Only databases with results specific to each alignment are listed. Complete copies of the environmental database reports are included in Appendix C.

24A.4.2 Summary of Listed Records of Concern – East Alignment

The EDR Report includes 291 listings from Federal and State databases. Table 24A.3-1 lists the databases and number of sites considered to be of concern within the East Alignment. Many of the sites listed are included in more than one database; therefore, the number of database listings does not match the total sites counted. The location of listed sites of concern is depicted in Appendix A, Figures 2 and 3. Individual site data forms with photographs are included in Appendix B.

Table 24A.3-1. Summary of Environmental Database Search – East Alternative

Database	Description	Facilities Listed	Sites of Concern to the Project
Federal			
CERCLIS/ CERCLIS – NFRAP	The CERCLIS database is a compilation of facilities that the USEPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to CERCLA. No Further Remedial Action Planned (NFRAP) refers to facilities that have been removed and archived from its inventory of CERCLA sites.	3	2
RCRA TSD/ CORRACTS	The USEPA maintains a database of Resource Conservation and Recovery Act (RCRA) facilities associated with treatment, storage, and disposal (TSD) of hazardous materials that are undergoing “corrective action.” A “corrective action report” (CORRACTS) order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1	1
RCRA INFO	The RCRA INFO database, maintained by the USEPA, lists facilities that generate hazardous waste as part of their normal business practices.	14	3
ERNS	Emergency Response Notification System (ERNS) records and stores information on reported releases of oil and hazardous substances.	20	0
PADS	PCB Activity Database System (PADS) identifies generators, transporters, commercial storers, and/or brokers and disposers of PCBs who are required to notify the USEPA of such activities.	1	0

Database	Description	Facilities Listed	Sites of Concern to the Project
FTTS	FIFRA/TSCA Tracking System, Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)/Toxic Substances Control Act (TSCA). 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).	1	0
State and Local			
RESPONSE	The Department of Toxic Substances Control's (DTSC) list which 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.	1	1
HIST CAL-SITES	The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA (Cal/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.	1	1
ENVIRO-STOR	DTSC Site Mitigation and Brownfields Reuse Program's EnviroStor database identifies sites that have known contamination or sites for which there may be reason 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 information including, 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.	8	3
LUST	Leaking Underground Storage Tanks (LUST) Incident Report – State Water Resources Control Board (SWRCB) LUST records contain an inventory of reported leaking UST incidents.	44	7
State UST	Underground Storage Tank (UST) Database – SWRCB provides a database of registered Underground Storage Tanks within the specified area. This database may also include registered Aboveground Storage Tanks (ASTs).	44	9
HIST UST	The Hazardous Substance Storage Container Database is a historical listing of UST sites previously maintained by SWRCB. Current data can be found in the State or local UST database.	68	28
VCP Site Remediation Program	DTSC's Voluntary Cleanup Program (VCP) contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agrees to provide coverage for DTSC's costs.	3	2
SWF/LF State Landfill/ Historical Landfill	Solid Waste Information System – The Integrated Waste Management Board maintains a list of Solid Waste Facilities/Landfill (SWF/LF) Sites, including active and inactive, permitted and non-permitted solid waste disposal facilities.	4	0
CA WDS	California Waste Discharge Systems (CA WDS) include sites which have been issued waste discharge requirements by the SWRCB.	12	4
Cortese	Cortese Hazardous Waste & Substances Sites – The Cal/EPA/Office of Emergency Information previously maintained a list of sites designated as LUST, SWF/LF or Cal-Sites. The list is no longer updated and cases are maintained by the SWRCB, Integrated Waste Management Board and DTSC.	45	4
SLIC	The SLIC (Spills, Leaks, Investigations and Cleanup) program is designated to protect and restore water quality from spills, leaks and similar discharges. Statewide SLIC cases are maintained by the SWRCB.	21	10

24A.4.2.1 CERCLIS/CERCLIS NFRAP

The EDR Report lists two sites from these databases. These sites of potential concern for the East Alignment included: E-3 – JR Simplot and E-13 – Stockton Naval Communication Station. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.2.2 RCRA CORRACTS/TSD

The EDR Report lists one site from these databases. The site of potential concern for the East Alignment included: E-13 – Stockton Naval Communication Station. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.2.3 RCRA INFO

The EDR Report lists 14 sites from this database. Three sites were identified as sites of potential concern for the East Alignment: E-8 – Unocal Bulk Plant, E9 – Former BC Stacking Terminal, and E-13 – Stockton Naval Communication Station. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.2.4 ERNS

The EDR Report lists 20 sites from this database. No sites were determined to be of potential concern to the East Alignment alternative.

24A.4.2.5 PADS

The EDR Report lists one site from this database. The site of potential concern for the East Alignment was: E-13 – Stockton Naval Communication Station. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.2.6 FTTS

The EDR Report lists one site from this database. No sites were determined to be of potential concern to the East Alignment alternative.

24A.4.2.7 RESPONSE

The EDR Report lists one site from this database. The site of potential concern to the East Alignment was: E-13 – Stockton Naval Communication Station. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.2.8 HIST-CAL SITES

The EDR Report lists one site from this database. The site of potential concern to the East Alignment was: E-13 – Stockton Naval Communication Station. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.2.9 ENVIROSTOR

The EDR Report lists eight sites from this database. Three sites were identified as sites of potential concern for the East Alignment: E-3 – JR Simplot, E-12 – Paradise Point Engine and Boat Repair

(formerly Tom Newhall Boat Repair), and E-13 – Stockton Naval Communication Station. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.2.10 LUST/UST/HIST LUST

The EDR Report lists 112 sites from these databases. Eight individual sites were identified as sites of potential concern to the East Alignment: E-1 Freeport Marina, E-4 – Courtland Bus Garage, E-7 – Circle K Ranch, E11 – King Island Resort Marina, E-16 – Hamatani Farms Inc, E-18 - Marina West Marine Services, E-19 - Sarale Farms, and E-21 – D Gas. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.2.10.1 VCP Site Remediation Program

The EDR Report lists three sites from this database. Two sites were determined to be of potential concern to this project alignment: E-12 – Paradise Point Engine and Boat Repair (formerly Tom Newhall Boat Repair) and E-18 - Marina West Marine Services. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.2.10.2 SWF/LF

The EDR Report lists four sites from this database. No sites were determined to be of potential concern to the East Alignment alternative.

24A.4.2.10.3 CA WDS

The EDR Report lists 12 sites from this database. Four sites were determined to be of potential concern for the East Alignment: E-3 – JR Simplot, E-4 – Courtland Bus Garage, E-11 – King Island Resort Marina, and E-12 Paradise Point Marina. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.2.10.4 Cortese

The EDR Report lists 45 sites from this database. Nine individual sites were identified as sites of potential concern for the East Alignment: E-1 Freeport Marina, E-3 – JR Simplot, E-4 – Courtland Bus Garage, E-7 – Circle K Ranch, E11 – King Island Resort Marina, E-13 – Stockton Naval Communications Station, E-16 – Hamatani Farms Inc, E-19 - Sarale Farms, and E-21 – D Gas. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.2.10.5 SLIC

The EDR Report lists 21 sites from this database. Ten sites were determined to be of potential concern to the East Alignment: E-2 – Clarksburg Diesel Fuel Spill, E-3 – JR Simplot, E-8 – Unocal Bulk Plant, E-9 – Former BC Stocking Bulk Terminal, E-11 – King Island Resort Marina, E-12 Paradise Point Engine and Boat Repair (Former Tom Newhall), E-14 Kinder Morgan Energy Services, E-15 – D&D Flying services, E-17 – The Landing Shopping Center, and E-18 – Marina West Marine Services. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.3 Summary of Listed Records of Concern – Through Delta Alignment

The EDR Report includes 60 listings from Federal and State databases. Table 24A.3-2 lists the databases and number of sites considered to be of concern within the Through Delta Alignment. Many of the sites listed are included in more than one database; therefore, the number of database listings does not match the total sites counted. The location of listed sites of concern is depicted in Appendix A, Figure 4. Individual site data forms with photographs are included in Appendix B.

Table 24A.3-2. Summary of Environmental Database Search – Through Delta Alternative

Database	Description	Facilities Listed	Sites of Concern to the Project
Federal			
CERCLIS/ CERCLIS –NFRAP	The CERCLIS database is a compilation of facilities that the USEPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to CERCLA. NFRAP refers to facilities that have been removed and archived from its inventory of CERCLA sites.	1	1
RCRA INFO	The RCRA INFO database, maintained by the USEPA, lists facilities that generate hazardous waste as part of their normal business practices.	4	1
ERNS	ERNS records and stores information on reported releases of oil and hazardous substances.	1	0
State and Local			
LUST	SWRCB LUST records contain an inventory of reported leaking UST incidents.	9	0
State UST	UST Database – SWRCB provides a database of registered Underground Storage Tanks within the specified area. This database may also include registered ASTs.	3	1
HIST UST	The Hazardous Substance Storage Container Database is a historical listing of UST sites previously maintained by SWRCB. Current data can be found in the State or local UST database.	18	0
SWF/LF State Landfill/ Historical Landfill	The Integrated Waste Management Board maintains a list of SWF/LF sites, including active and inactive, permitted and non-permitted solid waste disposal facilities.	5	1
CA WDS	CA WDS include sites which have been issued waste discharge requirements by the SWRCB.	2	1
Cortese	Cortese Hazardous Waste & Substances Sites – The Cal/EPA/Office of Emergency Information previously maintained a list of sites designated as LUST, SWF/LF or Cal-Sites. The list is no longer updated and cases are maintained by the SWRCB, Integrated Waste Management Board and DTSC.	7	1
SLIC	The SLIC program is designated to protect and restore water quality from spills, leaks and similar discharges. Statewide SLIC cases are maintained by the SWRCB.	9	2

24A.4.3.1.1 CERCLIS/CERCLIS NFRAP

The EDR Report lists one site from these databases. The site of potential concern for the Through Delta Alignment was: TD-1 – PG&E McDonald Island. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.3.1.2 RCRA INFO

The EDR Report lists four sites from this database. The site of potential concern to the Through Delta Alignment was: TD-1 – PG&E McDonald Island. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.3.1.3 ERNS

The EDR Report lists one site from this database. The site was not determined to be of potential concern to the Through Delta Alignment.

24A.4.3.1.4 LUST/UST/HIST LUST

The EDR Report lists 18 sites from these databases. One site was identified as a site of potential concern for the Through Delta Alignment: TD-2 – H&H Marina. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.3.1.5 SWF/LF

The EDR Report lists five sites from this database. No sites were determined to be of potential concern to this project alignment.

24A.4.3.1.6 CA WDS

The EDR Report lists two sites from this database. No sites were determined to be of potential concern to this project alignment.

24A.4.3.1.7 Cortese

The EDR Report lists seven sites from this database. One site of potential concern to the Through Delta Alignment was: TD-2 – H&H Marina. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.3.1.8 SLIC

The EDR Report lists nine sites from this database. Two sites of potential concern to the Through Delta Alignment included: TD-1 – PG&E McDonald Island and TD-2 – H&H Marina. Information on these sites is provided in Section 3.7 and Appendix B.

24A.4.4 Summary of Listed Records of Concern – West Alignment

The EDR Report includes 378 listings from Federal and State databases. Table 24A.3-3 lists the databases and number of sites considered to be of concern within the West Alignment. Many of the sites listed are included in more than one database; therefore, the number of database listings does

not match the total sites counted. The location of listed sites of concern is depicted in Appendix A, Figures 5 through 8. Individual site data forms with photographs are included in Appendix B.

Table 24A.3-3. Summary of Environmental Database Search – West Alternative

Database	Description	Facilities Listed	Sites of Concern to the Project
Federal			
CERCLIS/ CERCLIS - NFRAP	The CERCLIS database is a compilation of facilities that the USEPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to CERCLA. NFRAP refers to facilities that have been removed and archived from its inventory of CERCLA sites.	4	3
RCRA TSD/ CORRACTS	The USEPA maintains a database of RCRA facilities associated with TSD of hazardous materials that are undergoing “corrective action.” A “corrective action” order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	2	2
RCRA INFO	The RCRA INFO database, maintained by the USEPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as large, small, or conditionally exempt.	33	7
ERNS	ERNS records and stores information on reported releases of oil and hazardous substances.	30	0
PADS	PADS identifies generators, transporters, commercial storers, and/or brokers and disposers of PCBs who are required to notify the EPA of such activities.	2	0
RAATS	RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the USEPA.	1	1
FTTS	FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA, and EPCRA.	1	0
State and Local			
RESPONSE	DTSC’s list which 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.	1	1
HIST CAL-SITES	The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, Cal/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.	1	1

Database	Description	Facilities Listed	Sites of Concern to the Project
ENVIRO-STOR	DTSC Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reason 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 information including, 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.	10	5
LUST	SWRCB LUST records contain an inventory of reported leaking UST incidents.	67	21
State UST	SWRCB provides a database of registered Underground Storage Tanks within the specified area. This database may also include registered ASTs.	79	19
HIST UST	The Hazardous Substance Storage Container Database is a historical listing of UST sites previously maintained by SWRCB. Current data can be found in the State or local UST database.	70	11
VCP Site Remediation Program	DTSC's VCP contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee investigation and/or cleanup activities and have agrees to provide coverage for DTSC's costs.	1	1
SWF/LF State Landfill/ Historical Landfill	The Integrated Waste Management Board maintains a list of SWF/LF sites, including active and inactive, permitted and non-permitted solid waste disposal facilities.	6	1
CA WDS	WDS includes sites which have been issued waste discharge requirements by the SWRCB.	12	4
Cortese	Cortese Hazardous Waste & Substances Sites – Cal/EPA/Office of Emergency Information previously maintained a list of sites designated as LUST, SWF/LF or Cal-Sites. The list is no longer updated and cases are maintained by the SWRCB, Integrated Waste Management Board and DTSC.	40	13
SLIC	The SLIC program is designated to protect and restore water quality from spills, leaks and similar discharges. Statewide SLIC cases are maintained by the SWRCB.	18	16

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24A.4.4.1.1 CERCLIS/CERCLIS NFRAP

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5

The EDR Report lists four sites from these databases. Three sites of potential concern for the West Alignment included: W-31 – PG&E Power Plant, W-32 – I.E. Dupont de Nemours, and W-37 – Bay Standard. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.4.1.2 RCRA CORRACTS/TSD

The EDR Report lists two sites from these databases. The sites of potential concern for the West Alignment included: W-31 – PG&E Power Plant and W-32 – I.E. Dupont de Nemours. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.4.1.3 RCRA INFO

The EDR Report lists 33 sites from these databases. Seven sites of potential concern for the West Alignment included: W-3 – Harvey Lyman Ag Service, W-9 – The Dutra Group, W-12 – PG&E Rio Vista Service Center, W-21 – Gordon Hansen, W-31 – PG&E Power Plant, W-32 – I.E. Dupont de Nemours, and W-37 – Bay Standard. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.4.1.4 ERNS

The EDR Report lists 30 sites from this database. No sites were determined to be of potential concern to this project alignment.

24A.4.4.1.5 PADS

The EDR Report lists seven sites from this database. No sites were determined to be of potential concern to this project alignment.

24A.4.4.1.6 RAATS

The EDR Report lists one site from this database. The site of potential concern for the West Alignment was: W-31 – PG&E Power Plant. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.4.1.7 FTTS

The EDR Report lists one site from this database. The site was not determined to be of potential concern to this project alignment.

24A.4.4.1.8 RESPONSE

The EDR Report lists one site from this database. The site of potential concern for the West Alignment was: W-30 – Army Reserve Training Area. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.4.1.9 HIST-CAL SITES

The EDR Report lists one site from this database. The site of potential concern for the West Alignment was: W-30 – Army Reserve Training Area. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.4.1.10 ENVIROSTOR

The EDR Report lists ten sites from this database. Five sites of potential concern for the West Alignment included: W-30 – Army Reserve Training Area, W-31 – PG&E Power Plant, W-32 – I.E.

Dupont de Nemours, and W-36 – Baldocchi Property, W-37 – Bay Standards, and W-38, Excelsior Middle School. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.4.1.11 LUST/UST/HIST LUST

The EDR Report lists 79 sites from these databases. Twenty-one individual sites of potential concern for the West Alignment included: W-3 – Harvey Lyman Ag Service, W-6 – Asta Construction Sand Pit, W-9 – The Dutra Group, W-11 – Rio Vista Chevron, W-12 – PG&E Rio Vista Service Center, W-13 – CalTrans Rio Vista Maintenance Station, W-15 – Rio Vista Bait and Tackle, W-16 – The Trendsetters, W-17 – Subway (Mobil station), W-19 – Moreno Trenching, W-20 – D&D Wholesale Tires, W-21 – Gordon Hanson, W-22 – Former Halliburton Energy Services, W-23, Asta Construction, W-24 – Shell Bulk Plant, W-25 – Spirit of America, W-26 – Chevron Bulk Plant, W-27 – Haps Bait Shop, W-30 – Army Reserve Training Area, W-32 – I.E. Dupont de Nemours, and W-34 – Bethel Island Golf Course. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.4.1.12 VCP Site Remediation Program

The EDR Report lists one site from this database. The site of potential concern for the West Alignment was: W-36 – Baldocchi Property. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.4.1.13 SWF/LF

The EDR Report lists six sites from this database. One site of potential concern to the West Alignment was: W-8 – Rio Vista Sanitary Landfill. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.4.1.14 CA WDS

The EDR Report lists 12 sites from this database. Four sites of potential concern for the West Alignment included: W-6 – Asta Construction Sand Pit, W-10 – C&S Auto, W-31 – Contra Costa Power Plant, and W-33 – Marine Emporium. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.4.1.15 Cortese

The EDR Report lists 40 sites from this database. Thirteen individual sites of potential concern for the West Alignment included: W-3 – Harvey Lyman Ag Service, W-11 – Rio Vista Chevron, W-12 – PG&E Rio Vista Service Center, W-14 – Rio Vista Shell, W-15 – Rio Vista Bait and Tackle, W-16 – The Trendsetters, W-17 – Subway (Mobil station), W-20 – D&D Wholesale Tires, W-22 – Former Halliburton Energy Services, W-23, Asta Construction, W-27 – Haps Bait Shop, W-28 – Delta Marina, and W-30 – Army Reserve Training Area. Information on the sites is provided in Section 3.7 and Appendix B.

24A.4.4.1.16 SLIC

The EDR Report lists 18 sites from this database. Five sites of concern for the West Alignment included: W-3 – Harvey Lyman Ag Service, W-6 – Asta Construction Sand Pit, W-18 – Bank of America, W-22 – Former Halliburton Energy Services, and W-26 – Chevron Bulk Terminal. Information on the site is provided in Section 3.7 and Appendix B.

24A.4.5 Historical Use Information

The objective of reviewing historical use information is to develop a history of previous land uses in the vicinity of the study area and to assess these uses for potential hazardous materials impacts that may affect the project. HDR reviewed those historical sources that were readily available and reviewable and likely to provide useful information.

24A.4.5.1 Historical Aerial Photographs

HDR reviewed historical aerial photographs of the study area, focusing on the development of Courtland, Walnut Grove, and Rio Vista, with photographs available at the University of California Davis Shields Library. Information obtained from this review is provided below:

East Alignment, Courtland – Photographs were reviewed from 1958, 1972, and 1992. The town of Courtland was developed as a town by 1952. Truck Works (Site E-6) was present in 1956, with the main buildings present. In 1972, Truck Works was still present with substantial amounts of debris and large numbers of trucks parked in the yard, particularly east of the main building. In the 1992 photographs, Truck Works had expanded with six new buildings east of the main facility.

East Alignment, Walnut Grove – Photographs were reviewed from 1957, 1972, and 1992. The town of Walnut Grove was present in the 1950s.

Crop Production Services (Site E-10) had a warehouse building, with trailers parked on site, and one tall cylindrical tank located at the back of the lot. Two other pesticide/fertilizer distributors were present in the 1957 photograph. In the 1972 photograph, Crop Production Services had added four to six vertical tanks at the same location as tanks are present today. At the other pesticide/fertilizer lots, horizontal tanks had been added. In the 1992 photograph, Crop Production Services had completed a major upgrade to the site with new ASTs at the location of the previous tanks and new parking and storage areas at the back of the lot. The northernmost of the pesticide/fertilizer lots had been cleared, and the eastern one was still present.

In 1957, the BC Stocking Terminal (Site E-9) was visible with eight ASTs. This site looked the same in the 1972 photograph and the 1992 photograph. An inactive gas station was also visible in the 1992 photograph at the west side of the BC Stocking yard.

In 1957, the Unocal Bulk Terminal (Site E-8) was present, but no tanks were visible. This site looked the same in 1972 and in 1992.

West Alignment, Mill Site A (Site W-35) – Photographs were available from 1972, 1984, 1996 and 1999. In 1972 and 1984, the site appeared to be active and in good condition with little debris and few vehicles present. In 1996 and 1999, the buildings appeared to be in good condition and some areas south of the main buildings appeared to have some debris and vehicles present.

West Alignment, Rio Vista – Photographs were available from 1937, 1953, 1972, 1984, and 1991. The town of Rio Vista was present in 1937, and a bridge was present crossing the river on the east side of town. Most of the town was developed on the south side of the bridge. Little development was present north of the bridge. Highway 12, running east and west through town appeared to be under construction. The Army Reserve (Site W-30) Docks were present, but the area looked like commercial shipping. Docks were also present at the Dutra Group site (Site W -9). The Halliburton Bulk Terminal (Site W-22) was present on the south side of the bridge. None of the gas stations

appeared to be present at this time. North of the bridge was a large processing plant of some kind – its activity could not be determined in the photo.

By 1953, the area along Highway 12 was developing, and the Shell station (Site W-14 appeared to be present, along with D&D tires (Site W-20). The Shell and Chevron bulk terminals (Sites W-24 and W-26) along the river south of the bridge were not present in this photo.

By 1984, the sites along Highway 12 were all present (W-11 through W-17). The Shell bulk terminal (W-24) was still present but the Chevron Bulk Terminal (W-26) and the Halliburton bulk terminal (W-22) were no longer present.

In the 1996 photograph, the Shell Bulk terminal was no longer present; D&D Tires (Site W-20) site had been cleared.

24A.4.6 Environmental Liens and Additional Information

Environmental lien searches were not conducted as part of the scope of work for this project. The EDR Report did not identify any sites with institutional controls within the study area.

24A.4.7 Summary of Previous Environmental Investigations

Upon review of the EDR Report, regulatory files were requested from the Central Valley RWQCB as follows:

- Within the alignment boundaries: CERCLIS, RCRA CORRACTS, LUST, SLIC, SWF/LF, WDS, Cortese, Sacramento, CS, RESPONSE, CHMIRS.
- Within the buffer boundaries: CERCLA NPL, RCRA CORRACTS, RESPONSE, SLIC.

File reviews were conducted March 3-5, 2009 at the Central Valley RWQCB in Sacramento, California. Additional files for certain sites were available online through various State of California public websites. The focus of the file reviews was on obtaining information regarding the nature and extent of soil, groundwater, or surface water contamination resulting from releases of chemicals to the environment. Files were limited to those provided at the time of the review, and do not necessarily represent a complete site record. Results of the files review for sites in each alignment are provided below.

24A.4.7.1 East Alignment

The following sites had available information.

- E-2, Clarksburg Diesel Fuel Spill – This site is located at a vineyard, and appears to have been a 500 gallon spill of diesel fuel onto soil, in December 2006. Fifteen tons of soil was removed in 20 by 50 foot area. No confirmation sampling data were found in the file.
- E-3, JR Simplot – This is a former fertilizer plant in Courtland. Prior to ownership by Simplot, it was owned by Occidental Chemical, and based on file review appears to have stored or formulated pesticides on-site. No files were available after 1996. At that time, low levels of pesticides were present in soils and groundwater, and groundwater contained levels of nitrates in excess of cleanup standards. The site is undergoing phytoremediation; no monitoring data were available to review the status of cleanup in 2009.

- 1 ● E-7, Circle K Ranch – The site had petroleum and constituents in soil and groundwater above
2 cleanup standards. Sacramento County made a no further action determination for this site on
3 September 15, 2008.
- 4 ● E-8, Unocal Bulk Facility – The site operated as a bulk storage and distribution facility for
5 petroleum products from 1922 to 1980, with 11 ASTs and underground pipelines. Products
6 were shipped by barge on the Sacramento River. The latest monitoring report from third
7 quarter 2008 indicates that groundwater contains petroleum products above cleanup standards.
- 8 ● E-9, Former BC Stocking Terminal – The site operated as a bulk storage and distribution facility
9 for petroleum products, for an unknown period of time, with six ASTs, and underground
10 pipelines. A sampling investigation from 2008 indicates that groundwater contains petroleum
11 products in excess of cleanup standards.
- 12 ● E-11, King Island Resort Marina – This site had three USTs that were removed in 1991, and soil
13 was identified as being impacted. Aboveground storage tanks were installed in 1999. Soil and
14 groundwater appears to be impacted by both the aboveground and the former underground
15 tanks. A corrective action plan was prepared in August 2008.
- 16 ● E-12, Paradise Point Engine and Boat Repair (formerly Tom Newhall Boat Repair) – Spent sand
17 blast grit containing copper and zinc was disposed of at this site. The grit was removed in 2004
18 and remaining concentrations in soil were below the soil cleanup standards.
- 19 ● E-15, D&D Flying Service – A 1990 inspection report indicates that this site had no rinsewater
20 containment for its agricultural spraying operation. No files were found to indicate that any
21 investigation or cleanup was undertaken.
- 22 ● E-16, Hamatani Farms – Two 1,500 gallon USTs were removed from this site in 1992. The most
23 recent groundwater monitoring report from third quarter 2008 indicates that groundwater in
24 this vicinity contains petroleum products in excess of cleanup standards.
- 25 ● E-17, The Landing Shopping Center – A former dry cleaners operated at this site.
26 Perchloroethylene was identified in soil gas and groundwater at low levels in 2000. No files
27 were found to indicate if additional sampling or cleanup has taken place at this site.
- 28 ● E-18, Marina West Marine Services – Files indicate that this site had shallow soils containing
29 copper in excess of cleanup standards. Excavation was undertaken, and the Department of Toxic
30 Substances Control issued a No Further Action letter on June 2, 2008.
- 31 ● E-19, Sarale Farms – A 10,000 gallon UST was removed from this site in 1992. Soil and
32 groundwater contain petroleum products in excess of cleanup standards. The San Joaquin
33 County Environmental Health Department issued a letter in December 2008 requiring continued
34 monitoring of groundwater and additional assessment of groundwater for petroleum.
- 35 ● E-20, Puregro, aka Western Farm – This site appears to be a bulk distribution facility with ASTs
36 for fertilizers and pesticides. Groundwater contains nitrates, petroleum products, organo-
37 phosphorus and organochlorine pesticides, chlorinated herbicides, fumigants, and carbamate
38 and urea pesticides in excess of cleanup standards. The site is undergoing semi-annual
39 groundwater monitoring.

24A.4.7.2 Through Delta Alignment

The following sites had regulatory information:

- TD-1, PG&E MacDonald Gas Island Storage Facility – A spill of mercaptan at this site resulted in the removal of 550 cubic yards of soil. No groundwater was impacted. The site received a No Further Action determination from the Central Valley RWQCB on January 12, 2009.
- TD-2, H&H Marina – Gasoline was discharged from an AST at this site in 2007, resulting in petroleum products in soil and groundwater above cleanup standards. A UST removed from the site in 1991 also resulted in soil and groundwater contamination in excess of cleanup standards. This site is reportedly under investigation.

24A.4.7.3 West Alignment

The following sites had regulatory information:

- W-11, Rio Vista Chevron – This property is an operating Chevron filling station and MacDonald's restaurant. Soil and groundwater have been impacted by releases of petroleum products from USTs. As of January 2009, groundwater at one location contains petroleum products in excess of cleanup standards.
- W-13, Caltrans Rio Vista Maintenance Station – This site had contamination resulting from releases of petroleum from a UST. The site received a No Further Action from the Solano County Department of Resource Management in June 2006.
- W-14, Rio Vista Shell – Releases have occurred from USTs at this former service station. Soil and groundwater contain petroleum products in excess of cleanup standards. Remediation is ongoing.
- W-15, Rio Vista Bait and Tackle (formerly Toms Union 76) – Releases have occurred from USTs at this former service station. Soil and groundwater contain petroleum products in excess of cleanup standards. Groundwater monitoring is ongoing.
- W-16, Trendsetters (formerly The Trap) - Releases have occurred from USTs at this former service station. Soil and groundwater contain petroleum products in excess of cleanup standards. Groundwater monitoring is ongoing.
- W-17, Subway restaurant (formerly Mobil Service Station) – Releases have occurred from USTs at this former service station. Soil and groundwater contain petroleum products in excess of cleanup standards. Remediation is ongoing.
- W-18, Bank of Stockton (formerly Bank of America) – Releases have occurred from USTs at this former auto repair shop and service station. Soil and groundwater contain petroleum products in excess of cleanup standards. Groundwater monitoring is ongoing.
- W-19, Moreno Trenching – This site operated as an office and equipment service yard for construction service companies until 2001. Three USTs were removed in 1993, and soil contamination was identified during removal. Extensive soil removal was conducted. Groundwater contains petroleum constituents above cleanup standards.
- W-20, D&D Wholesale Tires – Releases have occurred from USTs at this former gas service station and tire repair facility. Soil and groundwater contain petroleum products in excess of cleanup standards. Groundwater monitoring is ongoing.

- 1 • W-21 Gordon Hanson – Releases have occurred from USTs at this site. Soil and groundwater
2 contain petroleum products in excess of cleanup standards. The last information in the file is
3 from 2004 and indicates the need for ongoing groundwater monitoring. Current site status is
4 unknown.
- 5 • W-22, Former Halliburton Service Bulk Plant – This oil field services site operated from 1956 to
6 1990. The site included a mixing plant for grout, as well as a heavy equipment repair shop and
7 fueling area with two USTs. Soil and groundwater contain petroleum products in excess of
8 cleanup standards. A closure request was submitted in April 2003 to the CVRWQCB; the current
9 status of the site is unknown.
- 10 • W-23, Asta Construction – Asta Construction operated this site in the 1960s as an equipment
11 service yard for the Asta Construction Company during the construction of the Rio Vista Bridge.
12 A UST was left on site when the property was vacated; when excavated in 1998, soils and
13 groundwater in the vicinity of the tank contained petroleum hydrocarbons in excess of cleanup
14 standards. The current status of the site is unknown.
- 15 • W-26, Former Chevron Bulk Plant – A petroleum product distribution service operated at the
16 site from the 1920s to the 1970s. Soil and groundwater contain petroleum products in excess of
17 cleanup standards. The site is undergoing monitored natural attenuation; quarterly
18 groundwater monitoring is ongoing.
- 19 • W-27, Hap's Bait Shop – Releases have occurred from USTs at this former service station. Soil
20 and groundwater contain petroleum products in excess of cleanup standards. Remediation is
21 ongoing.
- 22 • W-28, Delta Marina – Three USTs were removed from this fueling facility between 1992 and
23 1998. Soil and groundwater contain petroleum products in excess of cleanup standards.
24 Groundwater monitoring is ongoing. Current site status is unknown.
- 25 • W-29, Alexander Flying Service – Rinse water from this former crop dusting operation was
26 reported to flow off the concrete pad onto the adjacent gravel. As of 1991, the business had been
27 present for 11 years. It is no longer in service at this location. No investigation records were
28 found in the file.
- 29 • W-34, Bethel Island Golf Course – Petroleum releases have occurred from USTs at this site. Soil
30 and groundwater contain petroleum products in excess of cleanup standards. Remediation is
31 ongoing.

32 24A.5 General Classification of Sites

33 For the purposes of assessment of a large area with many sites, it is beneficial to understand the
34 general categories of site types and/or land use, and the typical contaminants associated with those
35 sites or land uses. The following sections detail some general site classifications, and indicate
36 common contaminants that might be associated with either normal use of hazardous materials or
37 improper use or waste disposal.

24A.5.1 Urban Land Use

Several communities exist within the study area that could be classified as “urban.” Small towns such as Courtland and Walnut Grove are located completely within the study area, and are small towns. Rio Vista is located on the edge of the study area, and is a larger town with more industrial/commercial properties. Stockton and Antioch are larger towns or small cities, with large-scale industrial facilities, mostly located along the San Joaquin River.



Figure 24A.4-1. City of Rio Vista

Urban areas have many facilities with the potential for hazardous materials releases.

Common site types are gas stations, dry cleaners, automotive repair facilities, and in larger towns, manufacturing facilities. Stockton, for example, has large shipping and port facilities, as well as Federal facilities with a history of hazardous materials use, storage, and releases. Antioch and Oakley, located on the south side of the San Joaquin River in the southern end of the study area, has major power producing facilities and several active or former industrial facilities with known groundwater impacts.

Possible contaminants of concern from urban land uses are extensive, but the most common contaminants in soil and groundwater are petroleum and associated compounds (typically gasoline and diesel releases from USTs as the source), chlorinated solvents and degreasers (from dry cleaning and vehicle repair facilities), and various heavy metals such as arsenic and lead. The singular characteristic of contaminants in groundwater beneath urban land uses is the variety of possibilities—just about any contaminant can be present, and it depends on the sources, and the geologic conditions present that might accelerate or limit dispersion of contaminants in soil and groundwater media.

24A.5.2 Petroleum Production and Processing

Active oil and gas extraction fields are present in some parts of the study area. Petroleum wells and field processing facilities, whether oil or gas, can release contaminants to the surface or subsurface. Generally, the actual well bores are not large sources of releases. The wells themselves are designed to move the product from the geologic strata to the surface with no loss of product. Releases are more common in transport pipelines and processing facilities, which are nearer the surface, and therefore more exposed to disturbance by weather or man. In addition to the wells and pipelines which tend to carry raw petroleum products, many other chemicals may be used in the extraction, treatment, or processing of the raw materials in field locations. For example, Figure 24A.4-2 shows a well with attendant holding tanks that contain some form of secondary recovery chemical, which is used to treat the well or the product for maximum production. A wide range of chemicals are used in oilfield applications for this purpose.



Figure 24A.4-2. Oil and Gas Production

In addition to production facilities, an active well field has a historical issue with exploration facilities. For example, during the drilling process, every well has a “mud pit” which serves as an overflow impoundment for excess drilling fluids. These drilling fluids often contain petroleum compounds in both raw (crude) form and refined form (drilling enhancement additives). Relict mud pits, although usually lined, may be a historic source area for hydrocarbon contamination.

Contaminants of concern from petroleum production and processing facilities include full-range hydrocarbons (from waxy paraffins to light volatile organics), secondary treatment chemicals such as acids or anti-corrosion chemicals, and mercury, which occur in instrumentation and production testing equipment.

24A.5.3 Agricultural Land Use

A major land use in the project area is agriculture. The Delta’s rich soil and abundant water



Figure 24A.4-3. Agricultural Fields

availability makes it a major contributor to the nation’s food supply and a wide variety of crops are grown year-round. Agricultural chemicals, including pesticides, herbicides, fertilizers, and crop-specific additives have been used in the Delta for decades. Each crop has specific chemical use associated with it, and a more robust discussion of the history of agricultural chemical usage in the study area may be found in the technical report that will be prepared. Although most agricultural chemicals are designed to break down in soil, some chemicals have a longer residence time in soil, and may break down into residual products that can accumulate to form toxic residue. Still other agricultural chemicals, banned from use today, may be found in trace amounts in

sediments. A discussion of this phenomenon may be found in technical report that will be prepared.

Contaminants of concern for agricultural land use include a broad suite of pesticides, herbicides, fertilizers, and additive chemicals specific to certain crops. Each of these chemical types may be sub-classified and ranked according to their relative risk to human or biotic populations.

24A.5.4 Pesticide/Herbicide/Fertilizer Batch Plants and Supply Companies

Pesticide/herbicide/fertilizer batch plants and supply companies including facilities that sell, store, concentrate, dilute, or distribute agricultural chemicals are present throughout the study area. These facilities may be large-volume supply businesses that have large tanks with thousands of gallons of these chemicals, which are sold to farmers or distributors for local use.



Figure 24A.4-4. Crop Production Services Walnut Grove



Figure 24A.4-5. Aerial Pesticide Application

These facilities may also be farm-level batch plants, which take the raw material from a supply yard or tanker and temporarily store the material prior to loading into distribution equipment. The main difference between a supply business and a batch plant is the volume and duration of storage. Another important distinction is that supply businesses often have extensive spill-containment equipment and specially trained staff, while a batching operation is less sophisticated regarding spill containment, and the farmer may or may not have specific training for handling these chemicals. Another category of batch plant is the aerial applicator (commonly known as a crop-dusting operation). These businesses function like a local batch plant, but the chemical is loaded onto an airplane rather than a tractor.

Contaminants of concern for these facilities are the same as for the agricultural land that they serve—but these facilities have a higher potential for localized residual impacts.

24A.5.4.1 Aerial Pesticide Application

Crop dusting operations, consisting of an airstrip with accompanying pesticide storage and rinsing areas, are expected to be common throughout the Delta. Historically, many farming operations used aerial crop dusting to efficiently distribute pesticides to crops. The planes carried tanks that were filled at the farm airstrip, and then rinsed upon return and change-out of chemicals. Many strips had no containment for rinse waters, resulting in the commonplace release of residual pesticides in rinse waters to the ground. Commercial crop dusting operations are still present. Typical chemicals would include a wide variety of pesticides and herbicides.

24A.5.4.2 Other Agricultural Land Use

Most farming properties have a portion of their land use that is not engaged directly in crop



production. These areas may contain a barn—formerly used for working animals but more commonly used now for equipment storage and maintenance. Farms also have a waste disposal area, where waste crop material may be stored for later offsite disposal, composting, or final disposal. These areas also may contain empty drums of lubricants, agricultural chemicals, or any other item that a farmer might wish to discard.

Most farms also have an area where their product is either stored or processed onsite prior to offsite shipping for consumptive use.

Figure 24A.4-6. Agricultural Processing Mill

The study area has a wide variety of processing facilities and mills, related to the variety of crops grown there. Figure 24A.4-6 shows a pear processing facility, complete with bin storage, processing and storage warehouse, and loading dock.

Contaminants of concern for these types of properties are again quite variable. The waste disposal areas may have petroleum products (waste materials from equipment maintenance), agricultural chemicals (spillage from not-quite-empty containers), or residual agricultural chemicals from waste plant material. Specific contaminants of concern for agricultural waste areas can only be determined after site-specific analysis of the waste stream.

24A.5.5 Marinas

Throughout the Delta, on all alignments, are located large marina operations that include houseboats and pleasure craft. These marinas typically have large fuel storage and overwater fueling operations, along with boat repair facilities of many types.

In addition, the marina facilities include commercial stores, boat storage facilities, and camping facilities. Typical chemicals, in addition to boat fuels, would include lubricants, cleaners, anti-fouling paints, sand blast grits, and fiberglass components.



Figure 24A.4-7. Paradise Point Marina

24A.5.6 Regional Issues

The study area has other issues related to hazardous materials where the source is not located within the study area itself. The best examples of this kind of impact are airfall from industrial facilities, and water/sediment-borne metals from California's history of hard-rock mining.

24A.5.6.1 Airfall

The study area is located within a large airshed, set in a bowl-shaped basin, which has multiple industrial facilities within it. Power plants, manufacturing facilities, automobiles, and defense-related sites all contribute to airborne contaminants. These contaminants may be deposited anywhere in the study area through direct deposition, or by accelerated deposition during precipitation events. A more detailed analysis of the potential of contaminant loading by airfall is included in the air quality technical report that is being prepared under separate cover.

Contaminants of concern from airfall are variable, but may include volatile organic compounds, heavy metals, or chlorinated solvent waste products.

24A.5.6.2 Mining

The study area is located downstream from some of the richest mining areas in the country. In the mid-1800s, California's economy became heavily dependent on the mining industry in the Sierras and Coastal Ranges. Starting with picks and shovels, mining techniques quickly became larger and more industrialized, employing hydraulic mining techniques to move large amounts of rock and soils. Techniques to recover gold from the rock included the use of mercury to amalgamate and extract the gold. According to Wiener *et al.* (2003), an estimated 12,000 metric tons of mercury were used in the gold mining industry in the 1800s, with annual losses of the mercury used ranging between 10 and 30 percent. Contaminants of concern from historic mining include mercury and other heavy metals that are released in the extraction processes. These contaminants may be available in surface water, groundwater or sediment material. A technical report that more thoroughly describes the effects of mining on the Delta will be prepared.

24A.5.6.3 Regional Hazardous Materials Transportation

The study area is located in a large area located between significant urban centers, including Antioch, Stockton, Sacramento and downstream in San Francisco and surrounding cities. Major east-west interstate routes cross the Delta and ship channels also cross the Delta for major water transportation of hazardous goods. All transportation of hazardous materials involves some risk of spillage and subsequent contamination of soil, water or sediments. Contaminants of concern in transportation are very broad including any materials that are shipped by truck, train or vessel.

24A.6 Site Reconnaissance

24A.6.1 Ground Reconnaissance

During March 2-5, 2009, HDR personnel conducted a field reconnaissance of the three alignments located in study area. The first two days were spent driving as much of the alignments that could be reached by vehicle, and the third day HDR staff performed a helicopter overflight of each of the three

alignments. The ground reconnaissance consisted of locating as many sites from the EDR database search and driving each of the alignments to identify any additional possible sites of concern that were not identified in any EDR environmental databases. The East Alignment and Through Delta Alignment were visited on the first day and the second day was spent driving on the West Alignment. All three alignments can be generally characterized as highly modified agricultural lands interspersed with roads, towns, and cities. In some parts of the overall study area, natural habitat also occurs, but is discontinuous. Many of the roads are built on canal levees that border local rivers and streams.

The East Alignment runs generally from Sacramento to Stockton, paralleling Interstate Route 5, and then turns southwest. The main roads running north and south in the alignment traverse the area surrounding the towns of Freeport, Courtland, Clarksburg, Locke, Walnut Grove, and Stockton. The majority of sites of concern located by the project team were in or near one of these communities. Various roads also cross the alignment from east to west. While the EDR databases identified several spill sites along the east-west alignments, few if any new sites were identified on the east-west routes in the alignment during the site reconnaissance. Sites of concern identified during the ground site reconnaissance that had not been identified in EDR included the following:

- E-4, School Bus Parking and Maintenance Facility, Courtland
- E-6, Truck Works, Courtland
- E-10, Crop Production Services, Walnut Grove
- E-23, Reclamation District 999 Yard, Clarksburg

The Through Delta Alignment runs generally from Sacramento due south through the Delta, ending in Antioch. The northern and southern portions of the alignment overlap with the East Alignment, and sites are described in the East Alignment. The Through Delta Alignment is very rural and no additional towns were visited during the reconnaissance. No sites were identified in the ground reconnaissance that had not been previously identified in the EDR database.

The West Alignment runs generally from Sacramento south along the Deep Ship Channel and south to Antioch, before turning east. Rio Vista is the largest town in the vicinity of this alignment. Antioch, a major metropolitan area skirts the southern boundary. Most roads in the alignment run north to south, and the alignment is less than a mile wide in some areas. Few east – west roads were present for ground reconnaissance. Sites of concern identified during the site reconnaissance that had not been identified in the EDR databases include:

- W-2, Harvey Lyman Company, Clarksburg
- W-4, Harding Flying Service, Central Avenue west of Highway 84
- W-7, Agricultural Chemical Operation A, Highway 84
- W-9, The Dutra Group, Rio Vista
- W-35, Mill Site A, Lat/long: 38.265/-121.64

24A.6.2 Aerial Reconnaissance

The aerial reconnaissance consisted of a helicopter overflight of all three alignments, north to south on the East Alignment and south to north on both the Through Delta and the West Alignment. The helicopter flew at approximately 500 feet above the ground surface, and where necessary to see the

alignment, zigzagged to the east and west. Oblique aerial photographs were taken from the left side of the helicopter. The aerial reconnaissance covered many areas not visible from the road network. The survey confirmed the agricultural nature of the area, provided an excellent view of larger industrial facilities in the towns and cities and resulted in the identification of one additional site of concern, located in the East Alignment, south of Courtland:

- E-21, Dump Site A, Lat/long: 37.97/-121.438

24A.7 Data Gap Analysis

The ASTM E 1527-05 standard requires a listing of “data gaps” encountered during the investigative process that may affect the validity of the conclusions drawn by the environmental professional. The ASTM E 1527-05 standard also requires that the environmental professional estimate the relative importance of the data gaps. For this project, the following items may constitute a data gap as defined by ASTM:

- Absence of historical aerial photographs covering the entire area of the Delta available at 10 year intervals.
- Absence of Sanborn map coverage for the smaller towns at 10 year intervals.
- Absence of information on specific industrial operations, both in and outside the Delta, specifically the history of the legal application of pesticides, and the incursion of mercury and other heavy metals into the Delta from upstream sources.
- Absence of information regarding hazardous materials transportation through the Delta and its possible impact on the possible alignments.
- The significance of these data gaps cannot be determined at this time.

24A.8 Findings and Conclusions

HDR conducted an ISA for each of the three proposed alignments associated with the BDCP Alternatives Analysis. The three alignments are (1), the East Alignment, (2) the Through Delta Alignment, and (3) the West Alignment. The current state of the Delta is that of a developed, multi-use landscape that is primarily used for agriculture, with secondary uses for recreation, habitat conservation, industrial/manufacturing, and residential. The Delta also includes land uses that might be categorized as “transportation-related,” including highways, railroads, canals, pipeline crossings, canals, and ship traffic on navigable waterways.

This ISA includes a summary of the site reconnaissance conducted March 2-5, 2009, a review of environmental databases, a review of historical data sources, and on-site and telephone interviews.

The ISA Process resulted in the following findings and conclusions:

- The region is a lowland inland delta contained within a structural basin bound to the north and east by the Sierra Nevada mountain range, to the west by a series of coastal ranges, and to the south and southwest by the Diablo range. The Delta itself consists of flatlands and wetlands formed by the confluence of the Sacramento and San Joaquin rivers and their tributaries.

- 1 • The three alignments traverse agricultural lands, canals, rivers, and towns. The East Alignment
2 parallels Interstate 5 to the east for much of its length. The Through Delta Alignment is the least
3 developed of the three alignments. The West Alignment generally follows the Deep Ship Channel
4 along its north end, includes the town of Rio Vista, and ends in the Antioch area.
- 5 • **East Alignment** – The EDR Report identified 18 sites of concern along the corridor which are
6 considered to be of concern to the project, or may pose potential risk in the event that the
7 property is acquired for future use. Four additional sites were identified during site
8 reconnaissance. Locations and additional risk details is provided in Table 24A.7-4 and Appendix
9 A, Figures 2 and 3.
- 10 • **Through Delta Alignment** - The EDR Report identified two sites of concern along the corridor
11 which are considered to be of concern to the project, or may pose potential risk in the event that
12 the property is acquired for future use. No other sites were identified during site
13 reconnaissance. Locations and additional risk details is provided in Table 24A.7-5 and Appendix
14 A, Figure 4.
- 15 • **West Alignment** - The EDR Report identified 34 sites of concern along the corridor which is
16 considered to be of concern to the project, or may pose potential risk in the event that the
17 property is acquired for future use. Five additional sites were identified during site
18 reconnaissance. Locations and additional risk details is provided in Table 24A.7-6 and Appendix
19 A, Figures 5 through 8.
- 20 • In a large agricultural area such as the study area, it is anticipated that low concentrations of
21 pesticide, herbicide and fertilizer contamination may be encountered anywhere in the
22 subsurface. In addition, in the urban areas such as Rio Vista and Walnut Grove, a substantial
23 number of sites were identified as having released petroleum or other chemicals to the
24 subsurface. As a result, additional investigation may be required where specific properties are
25 planned for acquisition. Oftentimes, despite the closure and removal of USTs, residual
26 contamination may exist, even after remedial activities have ceased. Similarly, locations of
27 former or historic automotive repair facilities may also contain varying degrees of
28 contamination due to operations and waste stream disposal prior to applicable regulations. This
29 impact of these chemical releases cannot be determined at this time.
- 30 • Mercury has been identified as a chemical of concern in Delta area sediments, resulting from
31 releases from mining operations in the watersheds upstream of the Delta. The distribution and
32 significance of this chemical contribution on the study area cannot be determined at this time.
33

1 **Table 24A.7-4. East Alignment Site Data Table**

EDR Map Code ⁽¹⁾	HDR Map Code	Site Name/ Former Name ⁽²⁾	Address	Site Operations - Key Site Use Relative to Hazmat Issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
14	E-1	Freeport Marina	8250 Freeport Blvd., Sacramento, CA	Marina facility with docks and waterside fueling.	R, D	H	I
53	E-2	Clarksburg Diesel Fuel Spill	38535 Netherland Road, Sacramento, CA	Residential property and agricultural land.	R, D	M	I
66	E-3	JR Simplot	40823 Jefferson Blvd., Courtland, CA	Closed pesticide and herbicide batching/supply facility. Currently fences and controlled as a cleanup site.	R, D	H	I
75	E-4	Courtland Bus Garage	Courtland, CA	School bus maintenance facility with ASTs onsite.	R	I	I
75	E-5	Norm's Auto Garage	11777 Riverside Avenue, Courtland, CA	Closed/vacant auto repair facility.	R, D	M	I
None	E-6	Truck Works	12010 South River Road, Courtland, CA	Trucking company and major trucking repair facility.	R, D, H	I	I
82	E-7	Circle K Ranch	2320 Lambert Road, Elk Grove, CA	Agricultural land with structures located onsite.	R, D	H	I
112	E-8	Unocal Bulk Plant	13941 River Road, Elk Grove, CA	Closed petroleum bulk terminal.	R, D	H	I
119	E-9	Former BC Stocking Bulk Terminal	14025 River Road, Walnut Grove, CA	Closed bulk terminal.	R, D	H	I
None	E-10	Crop Production Services	14442 Walnut Grove, Walnut Grove, CA	Agricultural chemical supply company.	R, D, H	H	I
178	E-11	King Island Resort Marina	11530 W 8 Mile Road, Stockton, CA	Active marina with landside and waterside fueling.	R, D	H	I
181	E-12	Paradise Point Engine and Boat Repair	8090 N Rio Blanco Road, Stockton, CA	Boat repair facility.	R, D	H	I
208	E-13	Stockton Naval Communication Station	Rough and Ready Island, Stockton, CA	United States Navy communications facility.	R, D	I	I
210	E-14	Kinder Morgan Energy	Inland Drive and Jacobs Road, Stockton, CA	Pipeline access station.	R, D	H	I
203	E-15	D&D Flying Services	1540 N Inland Drive, Stockton, CA	Closed aerial applicator airstrip and batching operation.	R, D	H	I
67	E-16	Hamatani Farms, Inc.	960 Lambert Rd., Courtland, CA	Agricultural land.	D, H	H	I

EDR Map Code ⁽¹⁾	HDR Map Code	Site Name/ Former Name ⁽²⁾	Address	Site Operations - Key Site Use Relative to Hazmat Issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
183	E-17	The Landing Shopping Center	3422 W Hammer Lane, Courtland, CA	Agricultural land.	D	H	I
188	E-18	Marina West Marine Services	8851 Embarcadero Drive, Stockton, CA	Boat repair facility.	R, D	I	I
220	E-19	Sarale Farms	16500 W Clifton Court, Stockton, CA	Agricultural land.	R, D	H	I
None	E-20	Dump Site A	Latitude: 37.96765 Longitude: 121.429	Agricultural dump site.	R	I	I
111	E-21	D Gas	11705 River Road, Oakland, CA	Current service station.	R, D	I	I
None	E-22	Reclamation District 999	Netherland Road, Clarksburg, CA	Industrial maintenance facility and pumping station	R	L	I

⁽¹⁾ Corresponds to location of site as indicated on Figures 2 and 3.

⁽²⁾ Current site name is used (prior site name in parentheses).

⁽³⁾ Description of observed site operations / key site use relative to hazmat issues (LUST= Leaking Underground Storage Tank).

⁽⁴⁾ Indicates primary information sources for listing: R=Reconnaissance, D=Database.

⁽⁵⁾ Risk of potential impacts onsite, Low / Medium / High / Indeterminate.

⁽⁶⁾ Risk of potential impacts off site, Low / Medium / High / Indeterminate.

1

2 **Table 24A.7-5. Through Delta Alignment Site Data Table**

EDR Map Code ⁽¹⁾	HDR Map Code	Site Name/Former Name ⁽²⁾	Address	Site Operations --- Key site Use Relative to Hazmat Issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
37	TD-1	PG&E McDonald Island	McDonald Island, Holt, CA	Natural gas storage facility.	R, D	I	I
34	TD-2	H&H Marina	15135 8 Mile Road, Stockton, CA	Marina	R, D	H	I

⁽¹⁾ Corresponds to location of site as indicated on Figure 4.

⁽²⁾ Current site name is used (prior site name in parentheses).

⁽³⁾ Description of observed site operations / key site use relative to hazmat issues (LUST= Leaking Underground Storage Tank).

⁽⁴⁾ Indicates primary information sources for listing: R=Reconnaissance, D=Database.

⁽⁵⁾ Risk of potential impacts onsite, Low / Medium / High / Indeterminate.

⁽⁶⁾ Risk of potential impacts off site, Low / Medium / High / Indeterminate.

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4

1 **Table 24A.7-6. West Alignment Site Data Table**

EDR Map Code ⁽¹⁾	HDR Map Code	Site Name/Former Name ⁽²⁾	Address	Site Operations -Key Site Use Relative to Hazmat Issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
33	W-1	Harvey Lyman Company Site 1	Clarksburg Road and Jefferson Blvd., Clarksburg, CA	Former agricultural chemical and farm supply location.	R, D	H	I
None	W-2	Harvey Lyman Company Site 2	Willow Point and Highway 84, Clarksburg, CA	Agricultural chemical and farm supply company with ASTs, bulk ag-chem storage.	R, D	M	I
33	W-3	Harvey Lyman Ag Service	35410 Jefferson Blvd., Clarksburg, CA	Agricultural chemical and farm supply company with ASTs, bulk ag-chem storage.	R, D	I	I
None	W-4	Harding Flying Service	48050 Central Avenue	Aircraft hangar located on levee, apparent agricultural chemical applicator.	R	I	I
68	W-5	Woodward Drilling aka Fisher Bros. Inc.	550 River Road, Rio Vista, CA	Drilling company yard with vehicle maintenance.	R, D	M	I
67	W-6	Asta Construction Sand Pit	1090 St. Francis Way, Rio Vista, CA	Sand pit/ construction yard.	R, D	H	I
None	W-7	Agricultural Chemical Operation A	Highway 84	Agricultural chemical storage/batch plant.	R	I	I
60	W-8	Rio Vista Landfill	301 Airport Road, Rio Vista, CA	Metals recycling facility onsite.	R, D	I	I
None	W-9	The Dutra Group	615 River Road, Rio Vista, CA	Docks with laydown yard across street. Floating cranes onsite.	R	I	I
74	W-10	C & S Auto	400 River Road, Rio Vista, CA	Vacant auto repair facility.	R, D	M	I
87	W-11	Rio Vista Chevron	300 Highway 12, Rio Vista, CA	Current Service Station.	R, D	H	I
87	W-12	PG&E Rio Vista Service Center	Highway 12 and Virginia Drive, Rio Vista, CA	Power company field center, transformer storage and vehicle fueling onsite.	R, D	L	I
87	W-13	CalTrans Rio Vista Maint. Station	480 Highway 12, Rio Vista, CA	CA Department of Transportation service center/ maintenance yard with fueling by AST.	R, D	M	I
87	W-14	Rio Vista Shell	419 Highway 12, Rio Vista, CA	Current Service Station	R, D	H	I
87	W-15	Rio Vista Bait and Tackle	510 Highway 12, Rio Vista, CA	Bait and tackle shop, former service station.	R	H	I
87	W-16	Trendsetters, formerly The Trap	660 Highway 12, Rio Vista, CA	Hair salon, former service station.	R, D	H	I

EDR Map Code ⁽¹⁾	HDR Map Code	Site Name/Former Name ⁽²⁾	Address	Site Operations -Key Site Use Relative to Hazmat Issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
87	W-17	Subway Station, formerly Mobil Service Station	659 Highway 12, Rio Vista, CA	Former restaurant, former service station.	R, D	H	I
91	W-18	Bank of Stockton, formerly, Bank of America	230 Main Street, Rio Vista, CA	Historic service station.	R, D	H	I
91	W-19	Moreno Trenching	210 Highway 12, Rio Vista CA	Equipment service yard.	R, D	M	I
87	W-20	D&D Tires	409 Highway 12, Rio Vista, CA	Tire shop, former Halliburton facility.	R, D	H	I
91	W-21	Gordon Hansen	101 N Front Street, Rio Vista, CA	Office storefront, former auto dealership.	R, D	H	I
87	W-22	Halliburton Services	265 N Front Street, Rio Vista, CA	Current industrial/warehouse, former Halliburton oilfield services yard.	R, D	H	I
87	W-23	Asta Construction	243 N Front Street, Rio Vista, CA	Currently vacant construction facility.	R, D	M	I
91	W-24	Shell Bulk Terminal	203 N Front Street, Rio Vista, CA	Currently vacant lot. Former petroleum products bulk terminal.	R, D	H	I
91	W-25	Spirit of America	200 N Front Street, Rio Vista, CA	Apparent new construction on lot, office building with warehouse storage behind.	R, D	H	I
91	W-26	Chevron Bulk Plant	33 N Front Street, Rio Vista, CA	Currently storefronts at this address, possible historic bulk terminal location.	R, D, H	H	I
91	W-27	Hap's Bait Shop	84 Main Street, Rio Vista, CA	Current storefront in downtown area, historic corner service station.	R, D, H	H	I
91	W-28	Delta Marina	100 Marina Drive, Rio Vista, CA	Canal-front marina.	R, D	H	I
67	W-29	Alexander Flying Service	933 Airport Road, Rio Vista, CA	Closed aerial applicator at former Rio Vista Airport location.	R, D, H	H	I
99	W-30	Army Reserve Training Center and US Coast Guard Station	900 Beach Street, Rio Vista, CA	Department of Defense facility.	R, D, H	H	I
131	W-31	PG&E Contra Costa Power Plant	3201 Wilbur Avenue, Antioch, CA	Electrical power generating station.	R, D, H	I	I
136	W-32	E.I. DuPont De Nemours	6000 Bridgehead Road, Antioch, CA	Closed industrial facility undergoing remediation.	R, D, H	H	H

EDR Map Code ⁽¹⁾	HDR Map Code	Site Name/Former Name ⁽²⁾	Address	Site Operations -Key Site Use Relative to Hazmat Issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
145	W-33	Marine Emporium	5993 Bethel Island Road, Bethel Island, CA	Marine repair shop.	R, D	M	I
123	W-34	Bethel Island Golf Course	3303 Gateway Road, Bethel Island, CA	Public golf course with onsite fueling.	R, D	H	I
None	W-35	Mill Site A	Latitude: 38.266 Longitude: 121.64	Agricultural Mill.	R, H	I	I
216	W-36	Baldocchi Property	6390 Sellers Avenue, Oakley, CA	Agricultural land with pesticide soil contamination.	D	I	I
201	W-37	Bay Standard	24485 Marsh Creek Road Brentwood, CA	Metal and metal plating manufacturing plant.	D	H	I
216	W-38	Excelsior Middle School	14401 Byron Highway, Byron, CA	Previously used for agricultural purposes, potential arsenic impart to soil.	D	I	I
91	W-39	Castle Minerals	45 Main Street, Rio Vista, CA	Release from UST.	D	I	I
⁽¹⁾ Corresponds to location of site as indicated on Figures 5 through 8. ⁽²⁾ Current site name is used (prior site name in parentheses). ⁽³⁾ Description of observed site operations / key site use relative to hazmat issues (LUST= Leaking Underground Storage Tank). ⁽⁴⁾ Indicates primary information sources for listing: R=Reconnaissance, D=Database. ⁽⁵⁾ Risk of potential impacts onsite, Low / Medium / High / Indeterminate. ⁽⁶⁾ Risk of potential impacts off site, Low / Medium / High / Indeterminate.							

24A.9 Recommendations

Recommendations in this report have been developed through the investigative procedures described in the Section 1.2, Scope of Services, Significant Assumptions, and Limitations. These findings should be reviewed within the context of the limitations provided. Based on the location and specific details of the identified risk sites, HDR has identified RECs within the study area. This conclusion has led to the inclusion of the following statement as required by ASTM E 1527-05:

HDR has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E 1527-05 for the project alignments associated with the BDCP EIR/EIS Project in California. Any exceptions to or deletions from these practices are described in previous sections of this report. This report has identified the presence of RECs in connection with the study area. Based on this conclusion, HDR makes the following recommendation:

24A.9.1 Recommendation

The sites of concern identified in this ISA should be evaluated further in the form of site-specific ASTM-compliant Phase I investigations when an alignment is chosen and information regarding

construction and property acquisition are available. Site-specific Phase I investigations will allow the study team to identify issues in more detail, and with the benefit of interviews and site-specific historical data.

Data gaps identified in this report should be investigated further. These include additional historical information on specific sites and communities, historic pesticide use, additional assessment of mercury impacts from mining in the Sierra and Coastal Ranges, and potential impacts related to hazardous materials transportation.

24A.10 Qualifications of Environmental Professionals

24A.10.1 Signatures and Qualifications

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in Section 312.10 of 42 CFR Part 312. This Phase I ISA was conducted under the supervision of a qualified environmental professional.

The preceding report has been prepared in general conformance with standard industry practice for performance of Environmental Site Assessments, the ISA equivalent, and includes the applicable portions of the investigation procedures codified in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments: Environmental Site Assessment Process*. The end user of this report may rely on the contents, findings, and conclusions to be accurate within the limitations stated in this report and in the ASTM standard. The report also complies with specific requirements supplied by the client.

Barbara Morson
Senior Project Manager

Kelly W. Kading CPG CHMM
Senior Professional Associate

24A.10.1.1 Qualifications of Environmental Professionals

Ms. Barbara Morson is an environmental professional with over 30 years of experience in the development and management of environmental programs for public and private clients. She manages HDR's Olympia, Washington environmental sciences group. She has more than 20 years experience conducting compliance evaluations, site investigations, and remedial activities on industrial sites throughout the western U.S. She serves on the HDR National Phase I Best Practices Team as a national QA/QC reviewer for Phase I ISAs. She is highly knowledgeable of Federal, State, and local regulations governing the use, storage and disposal of chemicals.

Mr. Kelly W. Kading, CPG CHMM, a Qualified Assessor as defined by Arizona Department of Transportation and an Environmental Professional as defined by ASTM E 1527-05, has more than 21 years of experience in assessment and remediation of impacted properties and compliance with environmental regulations. He has a B.S. in Geology from Colorado State University and is a Certified Professional Geologist (#9173), and a Certified Hazardous Materials Manager (#1995). He

specializes in forensic investigation of hazardous materials-impacted properties for municipal and state agencies, as well as commercial clients. His experience covers assessment of more than 3,500 properties ranging from agricultural land to multigenerational industrial properties in 32 states and 2 foreign countries. He is highly knowledgeable of Federal, State, and local environmental regulations and standards and has served on the National Board of Directors of the Academy of Certified Hazardous Materials Managers. He leads HDR's Phase I Best Practices Team, and is a national QA/QC reviewer for Phase I ISAs.

24A.11 References

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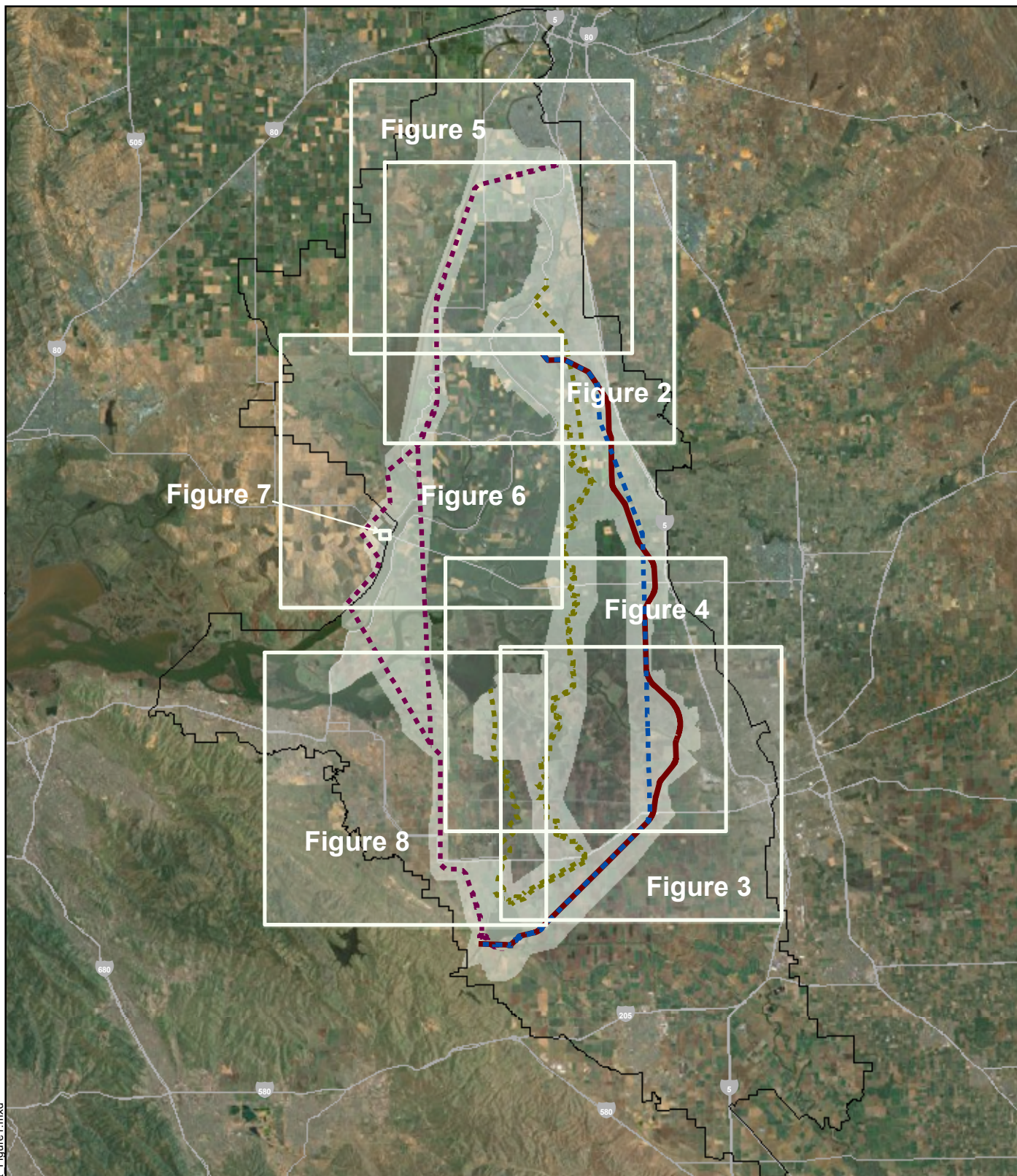
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APPENDIX A

Phase I Initial Site Assessment Figures

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Legend

- East Alignment
- East Alignment
- Through Alignment
- West Alignment

- Statutory Delta
- Conveyance Area

BDCP EIR/EIS

ISA Identified Sites
Locator Map

Source: Statutory Delta, published by DWR Spatial Library, 2003; Alignments, DWR, 2009; Imagery, Copyright© 2008 ESRI, i-cubed.

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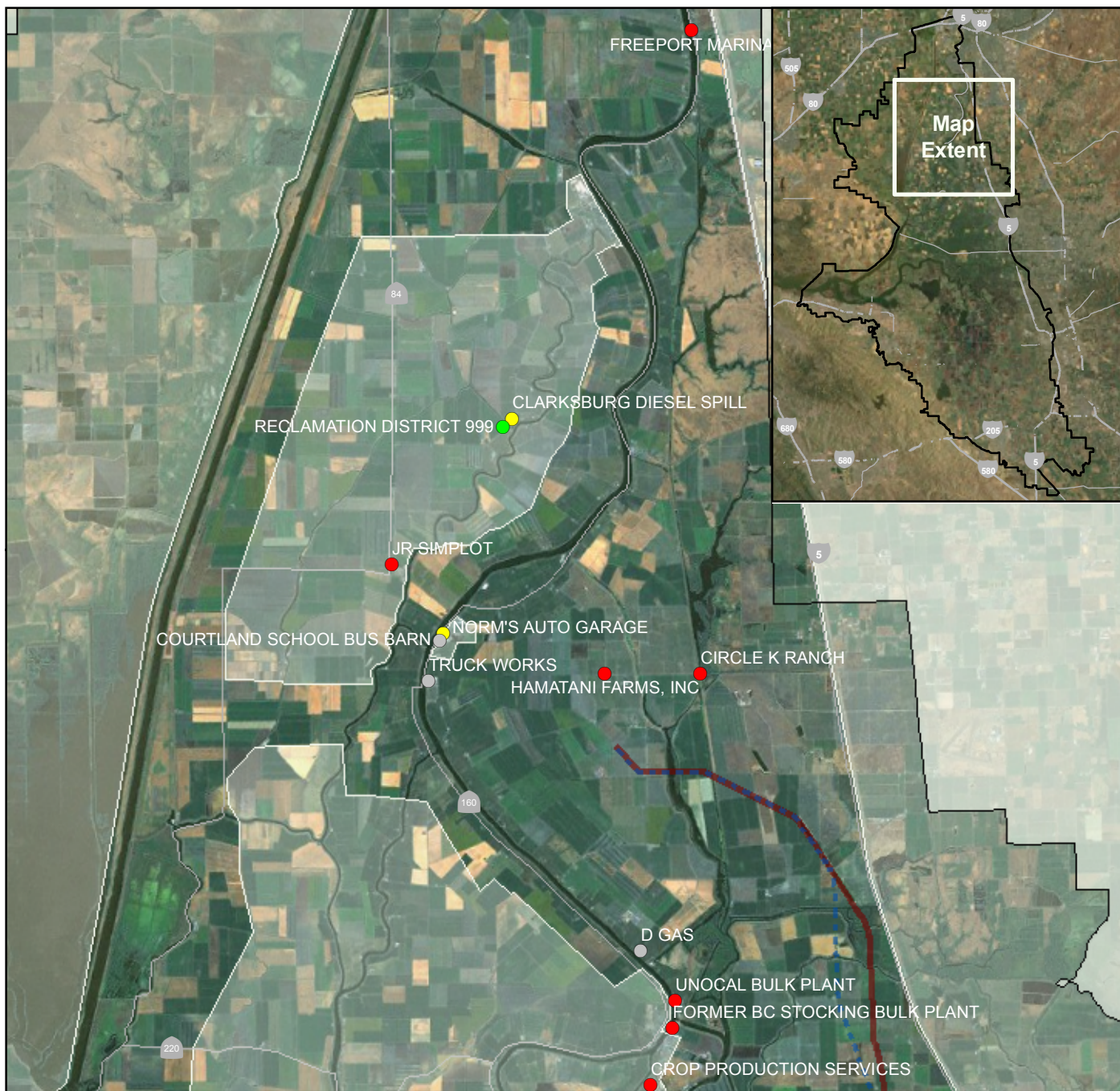


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4.08.2009

Figure 1

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Site Name/Former Name ⁽¹⁾	Address ⁽²⁾	Site Operations -- Key site use relative to hazmat issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
Freeport Marina	8250 Freeport Blvd., Sacramento, CA	Marina facility with docks and waterside fueling.	R, D	H	I
Clarksburg Diesel Fuel Spill	38535 Netherland Road, Sacramento, CA	Residential property and agricultural land.	R,D	M	I
JR Simplot	40823 Jefferson Blvd., Courtland, CA	Closed pesticide and herbicide batching/supply facility. Currently fences and controlled as a cleanup site.	R,D	H	I
Courtland School's Bus Barn	Courtland, CA	School bus maintenance facility with ASTs onsite.	R	I	I
Norm's Auto Garage	11777 Riverside Avenue, Courtland, CA	Closed/vacant auto repair facility.	R,D	M	I
Truck Works	12010 South River Road, Courtland, CA	Trucking company and major trucking repair facility.	R, D, H	I	I
Circle K Ranch	2320 Lambert Road, Elk Grove, CA	Agricultural land with structures located onsite.	R,D	H	I
Unocal Bulk Plant	13941 River Road, Elk Grove, CA	Closed petroleum bulk terminal.	R, D	H	I
Former BC Stocking Bulk Terminal	14025 River Road, Walnut Grove, CA	Closed bulk terminal.	R,D	H	I
Crop Production Services	14442 Walnut Grove, Walnut Grove, CA	Agricultural chemical supply company.	R,D,H	H	I
Hamatani Farms, Inc.	960 Lambert Rd., Courtland, CA	Agricultural land.	D, H	H	I
D Gas	11705 River Road, Oakland, CA	Current service station.	R,D	I	I
Reclamation District 999	Netherland Road, Clarksburg, CA	Industrial maintenance facility and pumping station	R	L	I

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Legend

- Conveyance Area
- Statutory Delta
- Outside Statutory Delta
- East Alignment 1
- East Alignment 2
- Sites of Concern

Note: Hazmat Site color refers to color in table

- (1) Current site name is used (prior site name in parentheses), CSS = current service station.
 (2) HSS = historic service station (no longer present).
 (3) Description of observed site operations / key site use relative to hazmat issues (LUST= Leaking Underground Storage Tank)
 (4) Indicates primary information sources for listing: R=Reconnaissance, D=Database
 (5) Risk of potential impacts onsite, Low / Medium / High / Indeterminate
 (6) Risk of potential impacts off site, Low / Medium / High / Indeterminate

BDCP EIR/EIS

ISA Identified Sites East Alignment 1

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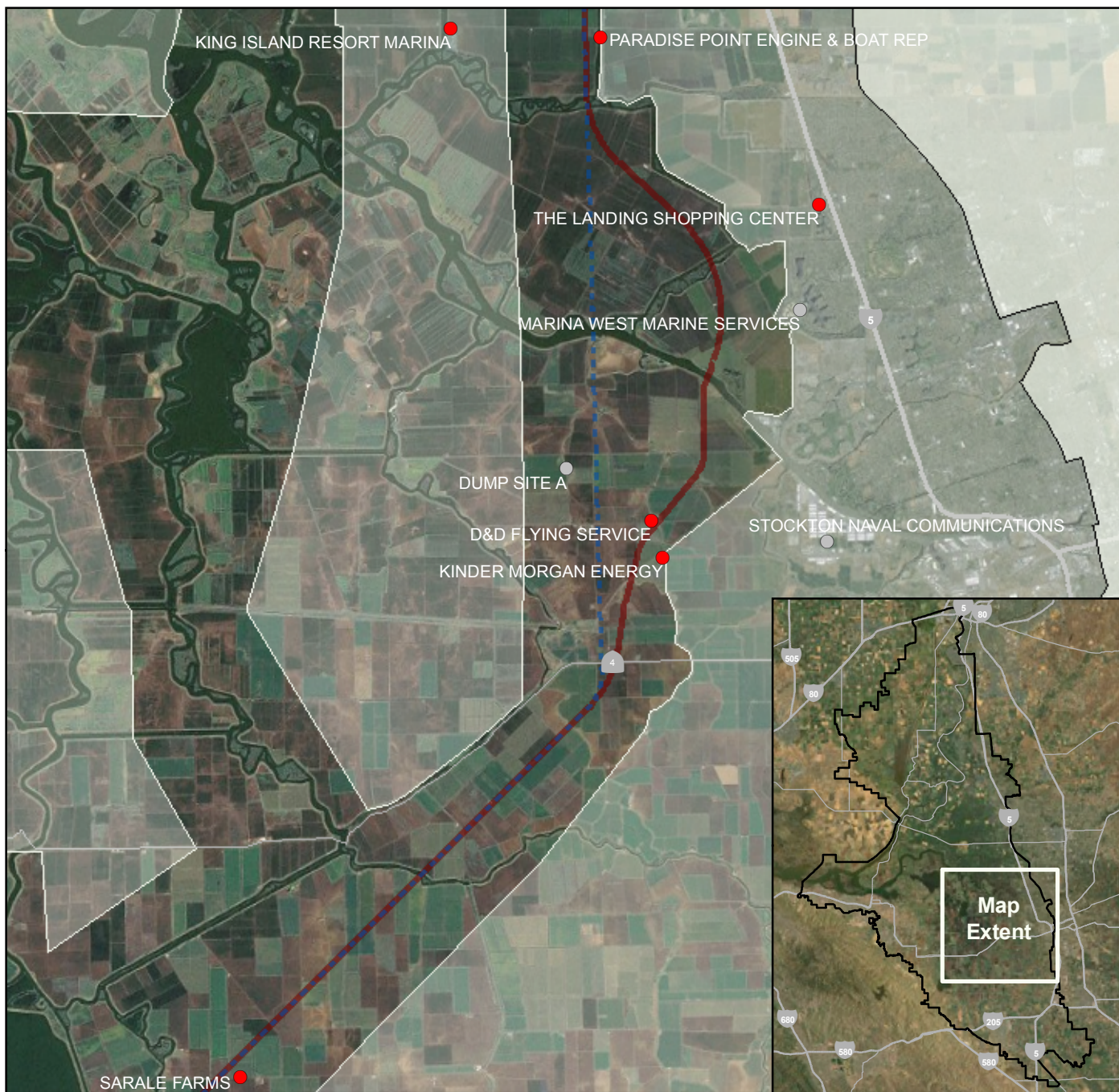


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Date Created:
3.30.2009

Figure 2

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Site Name/Former Name ⁽¹⁾	Address ⁽²⁾	Site Operations --- Key site use relative to hazmat issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
King Island Resort Marina	11530 W 8 Mile Road, Stockton, CA	Active marina with landside and waterside fueling.	R,D	H	I
Paradise Point Engine and Boat Repair	8090 N Rio Blanco Road, Stockton, CA	Boat repair facility.	R,D	H	I
Stockton Naval Communication Station	Rough and Ready Island Stockton, CA	United States Navy communications facility.	R,D	I	I
Kinder Morgan Energy	Inland Drive and Jacobs Road, Stockton, CA	Pipeline access station.	R,D	H	I
D&D Flying Services	1540 N Inland Drive, Stockton, CA	Closed aerial applicator airstrip and batching operation.	R,D	H	I
The Landing Shopping Center	3422 W Hammer Lane, Courtland, CA	Agricultural land.	D	H	I
Marina West Marine Services	8851 Embarcadero Drive, Stockton, CA	Boat repair facility.	R,D	I	I
Sarale Farms	16500 W Clifton Court, Stockton, CA	Agricultural land.	R,D	H	I
Dump Site A	Latitude: 37.96765 Longitude: 121.429	Agricultural dump site.	R	I	I

- (1) Current site name is used (prior site name in parentheses), CSS = current service station,
(2) HSS = historic service station (no longer present)
(3) Description of observed site operations / key site use relative to hazmat issues (LUST= Leaking Underground Storage Tank)
(4) Indicates primary information sources for listing: R=Reconnaissance, D=Database
(5) Risk of potential impacts onsite, Low / Medium / High / Indeterminate
(6) Risk of potential impacts off site, Low / Medium / High / Indeterminate

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Legend

- Conveyance Area
- Statutory Delta
- Outside Statutory Delta
- East Alignment
- East Alignment 2
- Sites of Concern

Note: Hazmat Site color refers to color in table

BDCEP EIR/EIS

ISA Identified Sites East Alignment 2

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DF-HDR 3.30.2009

Figure 3



Site Name/Former Name ⁽¹⁾	Address ⁽²⁾	Site Operations -- Key site use relative to hazmat issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
PG&E McDonald Island	McDonald Island, Holt, CA	Natural gas storage facility.	R, D	I	I
H&H Marina	15135 8 Mile Road Stockton, CA	Marina	R,D	H	I

- (1) Current site name is used (prior site name in parentheses), CSS = current service station.
 (2) HSS = historic service station (no longer present)
 (3) Description of observed site operations / key site use relative to hazmat issues (LUST= Leaking Underground Storage Tank)
 (4) Indicates primary information sources for listing: R=Reconnaissance, D=Database
 (5) Risk of potential impacts onsite, Low / Medium / High / Indeterminate
 (6) Risk of potential impacts off site, Low / Medium / High / Indeterminate

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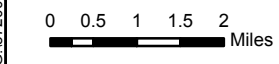
- Conveyance Area
- Statutory Delta
- Outside Statutory Delta
- Through Alignment
- Sites of Concern

Note: Hazmat Site color refers to color in table

BDCP EIR/EIS

**ISA Identified Sites
Through Delta Alignment**

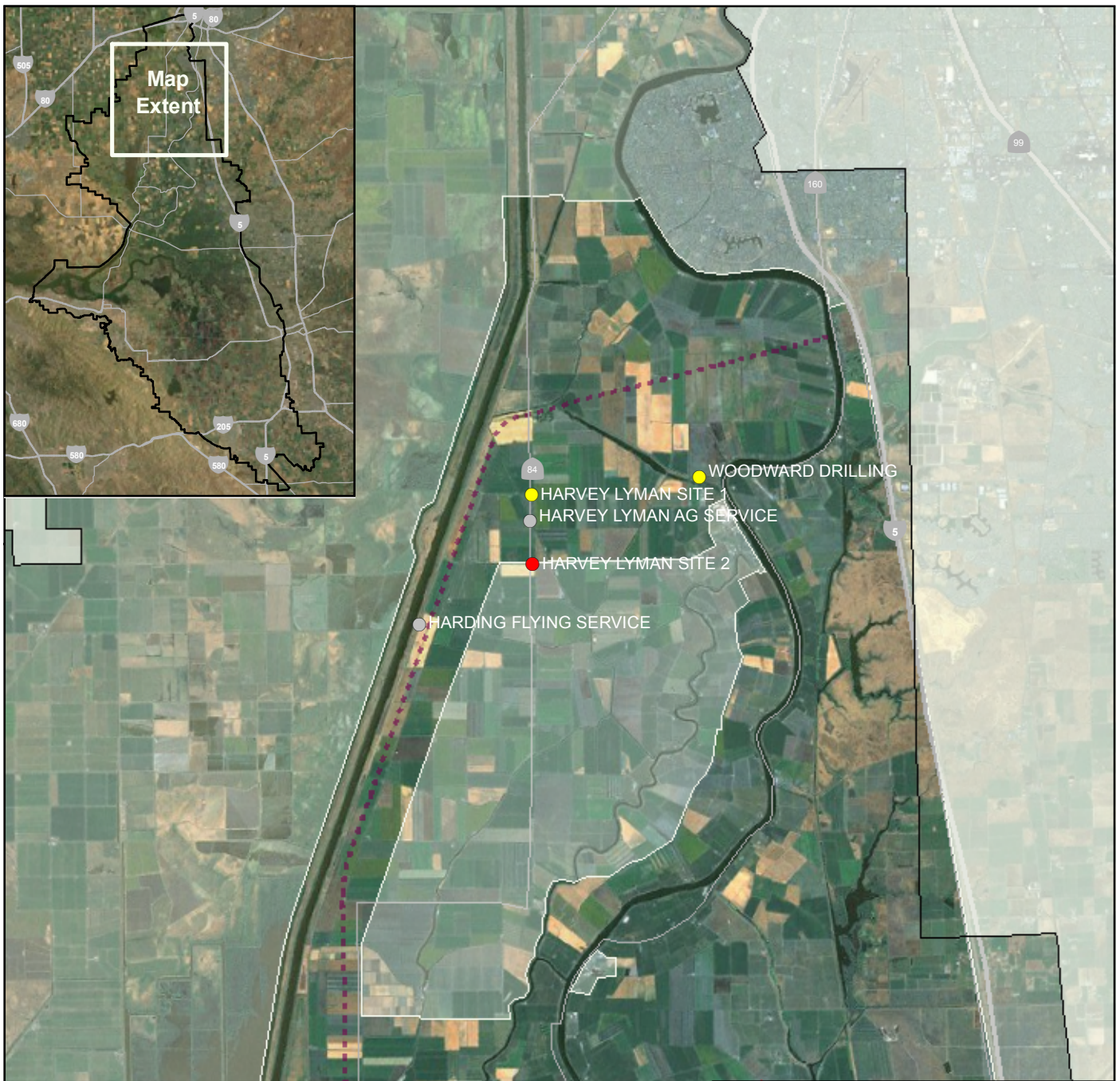
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Figure 4

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Site Name/Former Name ⁽¹⁾	Address ⁽²⁾	Site Operations --- Key site use relative to hazmat issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
Harvey Lyman Company Site 1	Clarksburg Road and Jefferson Blvd., Clarksburg, CA	Former agricultural chemical and farm supply location.	R, D	H	I
Harvey Lyman Company Site 2	Willow Point and Highway 84, Clarksburg, CA	Agricultural chemical and farm supply company with ASTs, bulk ag-chem storage.	R,D	M	I
Harvey Lyman Ag Service	35410 Jefferson Blvd., Clarksburg, CA	Agricultural chemical and farm supply company with ASTs, bulk ag-chem storage.	R,D	I	I
Harding Flying Service	48050 Central Avenue	Aircraft hangar located on levee, apparent agricultural chemical applicator.	R	I	I
Woodward Drilling aka Fisher Bros. Inc.	550 River Road, Rio Vista, CA	Drilling company yard with vehicle maintenance.	R,D	M	I

Legend

- Conveyance Area
- Statutory Delta
- Outside Statutory Delta
- West Alignment
- Sites of Concern

Note: Hazmat Site color refers to color in table

BDCP EIR/EIS

ISA Identified Sites West Alignment 1

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DF-HDR 3.30.2009

Figure 5

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Site Name/Former Name ⁽¹⁾	Address ⁽²⁾	Site Operations -- Key site use relative to hazmat issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁷⁾
Asta Construction Sand Pit	1090 St. Francis Way, Rio Vista, CA	Sand pit/ construction yard.	R, D	H	I
Agricultural Chemical Operation A	Highway 84	Agricultural chemical storage/batch plant.	R	I	I
Rio Vista Landfill	301 Airport Road, Rio Vista, CA	Metals recycling facility onsite.	R, D	I	I
The Dutra Group	615 River Road, Rio Vista, CA	Docks with laydown yard across street. Floating cranes onsite.	R,	I	I
C & S Auto	400 River Road, Rio Vista, CA	Vacant auto repair facility.	R,D	M	I
Delta Marina	100 Marina Drive, Rio Vista, CA	Canal-front marina	R, D	H	I
Alexander Flying Service	933 Airport Road, Rio Vista, CA	Closed aerial applicator at former Rio Vista Airport location.	R, D, H	H	I
Army Reserve Training Center and US Coast Guard Station	900 Beach Street, Rio Vista, CA	Department of Defense facility.	R, D, H	H	I
Mill Site A	Latitude: 38.266 Longitude: 121.64	Agricultural Mill	R,H	I	I

- (1) Current site name is used (prior site name in parentheses). C SS = current service station.
(2) HSS = historic service station (no longer present)
(3) Description of observed site operations / key site use relative to hazmat issues (LUST= Leaking Underground Storage Tank)
(4) Indicates primary information sources for listing: R=Reconnaissance, D=Database
(5) Risk of potential impacts onsite, Low / Medium / High / Indeterminate
(6) Risk of potential impacts off site, Low / Medium / High / Indeterminate

Legend

- Conveyance Area
- Statutory Delta
- Outside Statutory Delta
- West Alignment
- Sites of Concern

Note: Hazmat Site color refers to color in table

BDCEP EIR/EIS

ISA Identified Sites West Alignment 2

Source: Statutory Delta, published by DWR Spatial Library, 2003; Alignments, DWR, 2009; Imagery, Copyright:© 2008 ESRI, i-cubed.

0 0.5 1 1.5 2
Miles



Prepared By:
DF-HDR

Date Created:
3.30.2009

Figure 6



Site Name/Former Name ⁽¹⁾	Address ⁽²⁾	Site Operations — Key site use relative to hazmat issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site LM/H ⁽⁵⁾	Impact off Site LM/H ⁽⁶⁾
Rio Vista Chevron	300 Highway 12, Rio Vista, CA	Current Service Station	R,D	H	I
PG&E Rio Vista Service Center	Highway 12 and Virginia Drive, Rio Vista, CA	Power company field center, transformer storage and vehicle fueling onsite.	R,D	L	I
CalTrans Rio Vista Maint. Station	480 Highway 12, Rio Vista, CA	CA Department of Transportation service center/ maintenance yard with fueling by AST.	R,D	M	I
Rio Vista Shell	419 Highway 12, Rio Vista, CA	Current Service Station	R,D	H	I
Rio Vista Bait and Tackle	510 Highway 12, Rio Vista, CA	Bait and tackle shop, former service station.	R,D	H	I
Trendsetters, formerly The Trap	680 Highway 12, Rio Vista, CA	Hair salon, former service station.	R,D	H	I
Subway Station, formerly Mobil Service Station	659 Highway 12, Rio Vista, CA	Former restaurant, former service station.	R,D	H	I
Bank of Stockton, formerly, Bank of America	230 Main Street, Rio Vista, CA	Historic service station.	R,D	H	I
Moreno Trenching	210 Highway 12, Rio Vista, CA	Equipment service yard.	R,D	M	I
D&D Tires	409 Highway 12, Rio Vista, CA	Tire shop, former Halliburton facility.	R,D	H	I
Gordon Hansen	101 N Front Street, Rio Vista, CA	Office storefront, former auto dealership.	R,D	H	I
Halliburton Services	265 N Front Street, Rio Vista, CA	Current industrial/warehouse, former Halliburton oilfield services yard.	R,D	H	I
Asta Construction	243 N Front Street, Rio Vista, CA	Currently vacant construction facility.	R,D	M	I
Shell Bulk Terminal	203 N Front Street, Rio Vista, CA	Currently vacant lot. Former petroleum products bulk terminal.	R,D	H	I
Spirit of America	200 N Front Street, Rio Vista, CA	Apparent new construction on lot, office building with warehouse storage behind.	R,D	H	I
Chevron Bulk Plant	33 N Front Street, Rio Vista, CA	Currently storefronts at this address, possible historic bulk terminal location.	R, D, H	H	I
Hap's Bait Shop	84 Main Street, Rio Vista, CA	Current storefront in downtown area, historic corner service station.	R, D, H	H	I
Castle Minerals	45 Main Street, Rio Vista, CA	Release from underground storage tank	D	I	I

Legend

○ Sites of Concern

Note: Hazmat Site color refers to color in table

- (1) Current site name is used (prior site name in parentheses), C-SB = current service station.
 (2) HSB = historic service station (no longer present)
 (3) Description of observed site operations / key site use relative to hazmat issues (LUST = Leaking Underground Storage Tank)
 (4) Indicates primary information sources for listing: R=Reconnaissance, D=Database
 (5) Risk of potential impacts onsite, Low / Medium / High / Indeterminate
 (6) Risk of potential impacts off site, Low / Medium / High / Indeterminate

BDCP EIR/EIS

ISA Identified Sites
West Alignment 3

Source: Statutory Delta, published by DWR Spatial Library, 2003; Alignments, DWR, 2009; Imagery, Copyright © 2008 ESRI, I-cubed.

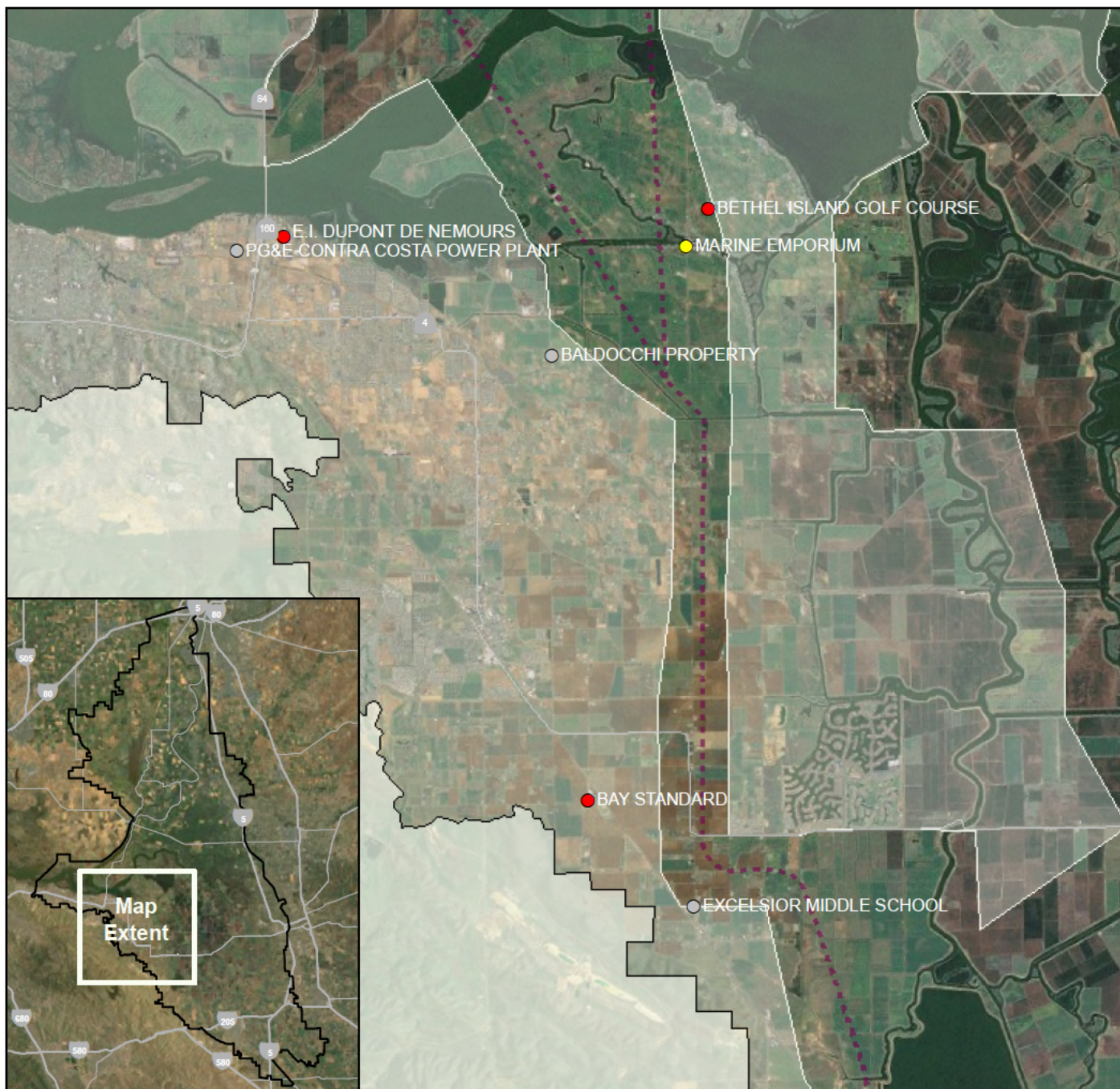
0 0.02 0.04 0.06 0.08
Miles



Prepared By:
DF-HDR

Date Created:
3.30.2009

Figure 7



Site Name/Former Name ⁽¹⁾	Address ⁽²⁾	Site Operations — Key site use relative to hazmat issues ⁽³⁾	Data Source ⁽⁴⁾	Impact on Site L/M/H ⁽⁵⁾	Impact off Site L/M/H ⁽⁶⁾
PG&E Contra Costa Power Plant	3201 Wilbur Avenue, Antioch, CA	Electrical power generating station.	R, D, H	I	I
E.I. DuPont De Nemours	6000 Bridgehead Road, Antioch, CA	Closed industrial facility undergoing remediation.	R, D, H	H	H
Marine Emporium	5993 Bethel Island Road, Bethel Island, CA	Marine repair shop.	R, D	M	I
Bethel Island Golf Course	3303 Gateway Road, Bethel Island, CA	Public golf course with onsite fueling.	R, D	H	I
Baldocchi Property	6390 Sellers Avenue, Oakley, CA	Agricultural land with pesticide soil contamination.	D	I	I
Bay Standard	24485 Marsh Creek Road, Brentwood, CA	Metal and metal plating manufacturing plant.	D	H	I
Excelsior Middle School	14401 Byron Highway, Byron, CA	Previously used for agricultural purposes, potential arsenic impact to soil.	D	I	I

Legend

- Conveyance Area
- Statutory Delta
- Outside Statutory Delta
- West Alignment
- Sites of Concern

Note: Hazmat Site color refers to color in table

BDCP EIR/EIS

ISA Identified Sites West Alignment 4

- (1) Current site name is used (prior site name in parentheses), CSS = current service station.
 (2) HSS = historic service station (no longer present)
 (3) Description of observed site operations / key site use relative to hazmat issues (LUST= Leaking Underground Storage Tank)
 (4) Indicates primary information sources for listing: R=Reconnaissance, D=Database
 (5) Risk of potential impacts onsite, Low / Medium / High / Indeterminate
 (6) Risk of potential impacts off site, Low / Medium / High / Indeterminate

Source: Statutory Delta, published by DWR Spatial Library, 2003; Alignments, DWR, 2009; Imagery, Copyright © 2008 ESRI, i-cubed.

0 0.5 1 1.5 2
Miles



Prepared By:
DF-HDR

Date Created:
3.30.2009

Figure 8

APPENDIX B

Phase I Initial Site Assessment
Site Data Forms with Photographs

East Alternative

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Freeport Marina

ADDRESS:

8250 Freeport Blvd
Sacramento, CA

EDR SITE TAG: 14

HDR SITE NUMBER: E-1



VIEW TOWARD THE: SOUTHWEST

FACILITY TYPE / FEATURES:

Marina facility with docks and waterside fueling

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Closed LUST case

OTHER COMMENTS:

Current fueling achieved by AST, see photograph.



VIEW TOWARD THE: EAST

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Clarksburg Diesel Fuel Spill

ADDRESS:

38535 Netherland Road
Sacramento, CA

EDR SITE TAG: 53

HDR SITE NUMBER: E-2



VIEW TOWARD THE: SOUTHEAST

FACILITY TYPE / FEATURES:

Residential property and agricultural land.

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open SLIC case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☐ MEDIUM ☒ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

JR Simplot

ADDRESS:

40823 Jefferson Blvd
Courtland, CA

EDR SITE TAG: 66

HDR SITE NUMBER: E-3



VIEW TOWARD THE: SOUTHEAST

FACILITY TYPE / FEATURES:

Closed pesticide and herbicide batching/supply facility, now fenced and controlled as a cleanup site.

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open SLIC case with impact to groundwater

OTHER COMMENTS:

Remediation systems onsite, including phytoremediation and monitoring.



VIEW TOWARD THE: SOUTH

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Courtland Bus Garage

ADDRESS:

Courtland, CA

EDR SITE TAG: None

HDR SITE NUMBER: E-4



VIEW TOWARD THE: EAST

FACILITY TYPE / FEATURES:

School bus maintenance facility with ASTs onsite.

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

LUST/UST/HIST UST

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Norm's Auto Garage

ADDRESS:

11777 Riverside Avenue
Courtland, CA

EDR SITE TAG: 75

HDR SITE NUMBER: E-5

FACILITY TYPE / FEATURES:

Closed/vacant auto repair facility

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Closed LUST case

OTHER COMMENTS:



VIEW TOWARD THE: NORTHEAST



VIEW TOWARD THE: EAST

IMPACT PROBABILITY:

ONSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input checked="" type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Truck Works

ADDRESS:

12010 South River Road
Courtland, CA

EDR SITE TAG: None

HDR SITE NUMBER: E-6



VIEW TOWARD THE: EAST

FACILITY TYPE / FEATURES:

Trucking company and major trucking repair facility

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

No regulatory listing

OTHER COMMENTS:

Widespread surface staining present onsite.
Historical aerial photographs indicate presence of facility since at least the 1960s.



VIEW TOWARD THE: EAST

IMPACT PROBABILITY:

ONSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Circle K Ranch

ADDRESS:

2320 Lambert Road
Elk Grove, CA

EDR SITE TAG: 82

HDR SITE NUMBER: E-7



VIEW TOWARD THE: EAST

FACILITY TYPE / FEATURES:

Agricultural land with some structures located onsite.

REGULATORY LISTING AND

OBSERVATIONS RELATING TO:

Open LUST case, Sacramento County
Contaminated Site

OTHER COMMENTS:

Specific spill location not determined by field reconnaissance

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Unocal Bulk Plant

ADDRESS:

13941 River Road
Elk Grove, CA
(Facility actually located in Locke, California)

EDR SITE TAG: 112

HDR SITE NUMBER: E-8



VIEW TOWARD THE: NORTHEAST

FACILITY TYPE / FEATURES:

Closed petroleum bulk terminal

REGULATORY LISTING AND**OBSERVATIONS RELATING TO:**

Open SLIC case, Open Sacramento County
Contaminated Site case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Former BC Stocking Bulk Terminal

ADDRESS:

14025 River Road
Walnut Grove, CA

EDR SITE TAG: 119

HDR SITE NUMBER: E-9



VIEW TOWARD THE: NORTH

FACILITY TYPE / FEATURES:

Closed bulk terminal

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open SLIC case, Open Sacramento County
Contaminated Site

OTHER COMMENTS:

Multiple monitoring wells onsite



VIEW TOWARD THE: NORTHEAST

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Crop Production Services

ADDRESS:

14442 Walnut Grove
Walnut Grove, CA

EDR SITE TAG: None

HDR SITE NUMBER: E-10

FACILITY TYPE / FEATURES:

Agricultural chemical supply company

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

No regulatory listing

OTHER COMMENTS:

Historical aerial photographs show site presence since at least the 1950s.



VIEW TOWARD THE: SOUTHWEST



VIEW TOWARD THE: SOUTHEAST

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

King Island Resort Marina

ADDRESS:

11530 W 8 Mile Road
Stockton, CA

EDR SITE TAG: 178

HDR SITE NUMBER: E-11



VIEW TOWARD THE: NORTHWEST

FACILITY TYPE / FEATURES:

Active marina with landside and waterside fueling

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open SLIC case

OTHER COMMENTS:

ASTs located onsite. No visible monitoring wells

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Paradise Point Engine and Boat Repair,
formerly Tom Newhall Boat Repair

ADDRESS:

8090 N Rio Blanco Road
Stockton, CA

EDR SITE TAG: 181

HDR SITE NUMBER: E-12

FACILITY TYPE / FEATURES:

Boat repair facility

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open SLIC and ENVIROSTOR cases

OTHER COMMENTS:

Listing related to sandblasting operations and
heavy metals release.



VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: SOUTHEAST

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Stockton Naval Communication Station

ADDRESS:

Rough and Ready Island
Stockton, CA

EDR SITE TAG: 208

HDR SITE NUMBER: E-13



VIEW TOWARD THE: NORTHWEST

FACILITY TYPE / FEATURES:

United States Navy communications facility

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open CORRACTS listing

OTHER COMMENTS:

Multi-use Defense Department facility.
Historical aerial photographs indicate site
presence since at least the 1950s.

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Kinder Morgan Energy

ADDRESS:

Inland Drive and Jacobs Road
Stockton, CA

EDR SITE TAG: 210

HDR SITE NUMBER: E-14



VIEW TOWARD THE: NORTHEAST

FACILITY TYPE / FEATURES:

Pipeline access station

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

SLIC

OTHER COMMENTS:

Refined petroleum products pipeline
surrounded by fencing

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

D&D Flying Services

ADDRESS:

1540 N Inland Drive
Stockton, CA

EDR SITE TAG: 203

HDR SITE NUMBER: E-15

FACILITY TYPE / FEATURES:

Closed aerial applicator airstrip and batching operation

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open SLIC case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

Hamatani Farms Inc

ADDRESS:

960 Lambert Road
Courtland, CA

EDR SITE TAG: 67

HDR SITE NUMBER: E-16

FACILITY TYPE / FEATURES:

Agricultural land

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case and Sacramento County
Contaminated Site case

OTHER COMMENTS:

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

The Landing Shopping Center

ADDRESS:

3422 W Hammer Lane
Courtland, CA

EDR SITE TAG: 183

HDR SITE NUMBER: E-17

FACILITY TYPE / FEATURES:

Shopping center and former dry cleaner

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open SLIC case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

Marina West Marine Services

ADDRESS:

8851 Embarcadero Drive
Stockton, CA

EDR SITE TAG: 188

HDR SITE NUMBER: E-18

FACILITY TYPE / FEATURES:

Boat repair facility

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open SLIC case, NFA

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

Sarale Farms

ADDRESS:

16500 W Clifton Court
Stockton, CA

EDR SITE TAG: 220

HDR SITE NUMBER: E-19

FACILITY TYPE / FEATURES:

Agricultural land

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Dump Site A

ADDRESS:

Latitude: 37.96765

Longitude: 121.42918

EDR SITE TAG: None

HDR SITE NUMBER: E-20



VIEW TOWARD THE: NORTHEAST

FACILITY TYPE / FEATURES:

Agricultural dump site

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

No regulatory listing

OTHER COMMENTS:

Large disturbed area with agricultural storage, general refuse and surface staining. Stressed vegetation present



VIEW TOWARD THE: EAST

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

D Gas

ADDRESS:

11705 River Road
Oakland, CA

EDR SITE TAG: 111

HDR SITE NUMBER: E-21

FACILITY TYPE / FEATURES:

Current Service Station

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Sacramento County Contaminated Site case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Reclamation District 999

ADDRESS:

Netherlands Road
Clarksburg, CA

EDR SITE TAG: None

HDR SITE NUMBER: E-22



VIEW TOWARD THE: EAST

FACILITY TYPE / FEATURES:

Industrial maintenance facility and pumping station

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

No regulatory listing

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☐ MEDIUM ☐ LOW ☒ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

Through Delta Alternative

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No photo available

SITE NAME:

PG & E McDonald Island

ADDRESS:

McDonald Island
Holt, CA

EDR SITE TAG: 37

HDR SITE NUMBER: TD-1

FACILITY TYPE / FEATURES:

Natural gas storage facility

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

CERC-NFRAP

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

H & H Marina

ADDRESS:

15135 8 Mile Road
Stockton, CA

EDR SITE TAG: 34

HDR SITE NUMBER: TD-2



VIEW TOWARD THE: NORTHWEST

FACILITY TYPE / FEATURES:

Marina

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open SLIC case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

West Alternative

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Harvey Lyman Company Site 1

ADDRESS:

Clarksburg Road and Jefferson Blvd

EDR SITE TAG: 46

HDR SITE NUMBER: W-1



VIEW TOWARD THE: WEST

FACILITY TYPE / FEATURES:

Former agricultural chemical and farm supply location.

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Harvey Lyman Company Site 2

ADDRESS:

Willow Point and Highway 84
Clarksburg, CA

EDR SITE TAG: 33

HDR SITE NUMBER: W-2

FACILITY TYPE / FEATURES:

Agricultural chemical and farm supply company
with ASTs, bulk ag-chem storage

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open SLIC case

OTHER COMMENTS:

VIEW TOWARD THE: SOUTH



VIEW TOWARD THE: SOUTHWEST

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☒ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Harvey Lyman Ag Service

ADDRESS:

35410 Jefferson Blvd
Clarksburg, CA

EDR SITE TAG: None

HDR SITE NUMBER: W-3

FACILITY TYPE / FEATURES:

Agricultural chemical and farm supply company
with ASTs, bulk ag-chem storage

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

No regulatory listing

OTHER COMMENTS:

VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: SOUTHWEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Harding Flying Service

ADDRESS:

48050 Central Avenue
Clarksburg, CA

EDR SITE TAG: None

HDR SITE NUMBER: W-4

FACILITY TYPE / FEATURES:

Aircraft hangar located on levee, apparent agricultural chemical applicator

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

No regulatory listing

OTHER COMMENTS:

ASTs present on the north side of the shed, some drums present (contents or condition unknown). Drums located on apparently unpaved surface.



VIEW TOWARD THE: NORTH



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Woodward Drilling aka Fisher Bros. Inc.

ADDRESS:

550 River Road
Rio Vista, CA

EDR SITE TAG: 68

HDR SITE NUMBER: W-5



VIEW TOWARD THE: WEST

FACILITY TYPE / FEATURES:

Drilling company yard with vehicle maintenance

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☐ MEDIUM ☒ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Asta Construction Sand Pit

ADDRESS:

1090 St. Francis Way
Rio Vista, CA

EDR SITE TAG: 67**HDR SITE NUMBER:** W-6

VIEW TOWARD THE: NORTH

FACILITY TYPE / FEATURES:

Sand pit/ construction yard

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

SLIC, UST release with impact to groundwater

OTHER COMMENTS:

No visible issues from public roadway

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Agricultural Chemical Operation A

ADDRESS:

Highway 84

EDR SITE TAG: None

HDR SITE NUMBER: W-7



VIEW TOWARD THE: EAST

FACILITY TYPE / FEATURES:

Agricultural chemical storage/ batch plant

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

No regulatory listing

OTHER COMMENTS:

ASTs located inside and outside of secondary containment. Drums stored on site. Staining inside secondary containment.

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Rio Vista Landfill

ADDRESS:

301 Airport Road
Rio Vista, CA

EDR SITE TAG: 60

HDR SITE NUMBER: W-8



VIEW TOWARD THE: WEST

FACILITY TYPE / FEATURES:

Municipal sanitary landfill

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

SWF/LF

OTHER COMMENTS:

Metals recycling facility onsite

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

The Dutra Group

ADDRESS:

615 River Road
Rio Vista, CA

EDR SITE TAG: None

HDR SITE NUMBER: W-9

FACILITY TYPE / FEATURES:

Docks, with laydown yard across street.
Floating cranes onsite.

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

No regulatory listing

OTHER COMMENTS:



VIEW TOWARD THE: EAST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

C & S Auto

ADDRESS:

400 River Road
Rio Vista, CA

EDR SITE TAG: 74

HDR SITE NUMBER: W-10



VIEW TOWARD THE: WEST

FACILITY TYPE / FEATURES:

Metal pre-fab building, currently vacant

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

CA WDS

OTHER COMMENTS:

Unpaved area behind garage

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☒ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Rio Vista Chevron

ADDRESS:

300 Highway 12
Rio Vista, CA

EDR SITE TAG: 87

HDR SITE NUMBER: W-11



VIEW TOWARD THE: WEST

FACILITY TYPE / FEATURES:

Current Service Station

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open LUST case

OTHER COMMENTS:

Historical aerial photographs showed site in different configuration pre-1975, but still as a service station.

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

PG & E Rio Vista Service Center

ADDRESS:

Highway 12 and Virginia Drive
Rio Vista, CA

EDR SITE TAG: 87

HDR SITE NUMBER: W-12

FACILITY TYPE / FEATURES:

Power company field center, transformer storage and vehicle fueling

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

RCRA-SQG, HAZNET, FINDS

OTHER COMMENTS:



VIEW TOWARD THE: NORTH



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input checked="" type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

CalTrans Rio Vista Maintenance Station

ADDRESS:

480 Highway 12
Rio Vista, CA

EDR SITE TAG: None

HDR SITE NUMBER: W-13

FACILITY TYPE / FEATURES:

California Department of Transportation service center/ maintenance yard with fueling by AST

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Closed LUST case

OTHER COMMENTS:

VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☒ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Rio Vista Shell

ADDRESS:

419 Highway 12
Rio Vista, CA

EDR SITE TAG: 87

HDR SITE NUMBER: W-14

FACILITY TYPE / FEATURES:

Current Service Station

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open LUST case with active remediation
system

OTHER COMMENTS:

Historical aerial photograph shows site present
since 1960s.



VIEW TOWARD THE: WEST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Rio Vista Bait and Tackle

ADDRESS:

510 Highway 12
Rio Vista, CA

EDR SITE TAG: 87

HDR SITE NUMBER: W-15

FACILITY TYPE / FEATURES:

Bait and tackle shop
Former Service Station

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Trendsetters Hair Salon, formerly The Trap

ADDRESS:

660 Highway 12
Rio Vista, CA

EDR SITE TAG: 87

HDR SITE NUMBER: W-16

FACILITY TYPE / FEATURES:

Hair salon
Former Service Station

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open LUST case

OTHER COMMENTS:



VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Subway Restaurant, former Mobil Service Station

ADDRESS:

659 Highway 12
Rio Vista, CA

EDR SITE TAG: 89

HDR SITE NUMBER: W-17

FACILITY TYPE / FEATURES:

Former restaurant
Former Service Station

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Bank of Stockton, former Bank of America

ADDRESS:

230 Main Street
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-18

FACILITY TYPE / FEATURES:

Historic Service Station

REGULATORY LISTING AND

OBSERVATIONS RELATING TO:

Open LUST case

OTHER COMMENTS:



VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Moreno Trenching

ADDRESS:

210 Highway 12
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-19

FACILITY TYPE / FEATURES:

Equipment Service Yard

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

VIEW TOWARD THE: NORTHEAST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

D & D Tires

ADDRESS:

409 Highway 12
Rio Vista, CA

EDR SITE TAG: 87

HDR SITE NUMBER: W-20

FACILITY TYPE / FEATURES:

Tire shop, former Halliburton facility

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

VIEW TOWARD THE: WEST (White building at river's edge, lower right corner.)

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Gordon Hansen

ADDRESS:

101 N Front Street
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-21



VIEW TOWARD THE: SOUTHEAST

FACILITY TYPE / FEATURES:

Office/storefront, former auto dealership

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

No work completed after 2004, just
correspondence asking for more work to be
done.

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Halliburton Services

ADDRESS:

265 N Front Street
Rio Vista, CA

EDR SITE TAG: 87

HDR SITE NUMBER: W-22



VIEW TOWARD THE: WEST

FACILITY TYPE / FEATURES:

Current industrial/warehouse, former
Halliburton oilfield services yard

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case, SLIC

OTHER COMMENTS:

Historical aerials indicate AST and chemical
storage onsite in the 1970s.

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Asta Construction

ADDRESS:

243 N Front Street
Rio Vista, CA

EDR SITE TAG: 87

HDR SITE NUMBER: W-23

FACILITY TYPE / FEATURES:

Currently vacant

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒



VIEW TOWARD THE: EAST

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Shell Bulk Terminal

ADDRESS:

203 N Front Street
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-24



VIEW TOWARD THE: SOUTHEAST

FACILITY TYPE / FEATURES:

Currently vacant lot. Former petroleum products bulk terminal.

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

Historical aerial photographs showed five to seven large ASTs oriented perpendicular to the river, plus a loading rack and truck lane as late as the 1970s.

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Spirit of America

ADDRESS:

200 N Front Street
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-25



VIEW TOWARD THE: NORTHWEST

FACILITY TYPE / FEATURES:

Apparent new construction on lot, office building
with warehouse storage behind.

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Historic LUST case

OTHER COMMENTS:**IMPACT PROBABILITY:**

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Chevron Bulk Plant

ADDRESS:

33 N Front Street
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-26



VIEW TOWARD THE: WEST

FACILITY TYPE / FEATURES:

Currently storefronts at this address, historical bulk terminal location

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

SLIC

OTHER COMMENTS:

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Hap's Bait Shop

ADDRESS:

84 Main Street
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-27



VIEW TOWARD THE: WEST

FACILITY TYPE / FEATURES:

Current storefront in downtown area, historic corner service station

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

Aerial photographs indicated old, corner gas station pre-1970.

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Delta Marina

ADDRESS:

100 Marina Drive
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-28



VIEW TO THE: WEST

FACILITY TYPE / FEATURES:

Canal front marina

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

Located north of Coast Guard facility, south of
downtown

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

VIEW TOWARD THE: No photograph
available

SITE NAME:

Alexander Flying Service

ADDRESS:

933 Airport Road
Rio Vista, CA

EDR SITE TAG: 67

HDR SITE NUMBER: W-29

FACILITY TYPE / FEATURES:

Closed aerial applicator at former Rio Vista
Airport location

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

SLIC

OTHER COMMENTS:

Could not find specific facility

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Army Reserve Training Center and US Coast Guard Station

ADDRESS:

900 Beach Street
Rio Vista, CA

EDR SITE TAG: 99

HDR SITE NUMBER: W-30

FACILITY TYPE / FEATURES:

Department of Defense facility

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open LUST case, RESPONSE

OTHER COMMENTS:



VIEW TOWARD THE: EAST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE HIGH ☒ MEDIUM ☐ LOW ☐ INDETERMINATE ☐

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

PG& E Contra Costa Power Plant

ADDRESS:

3201 Wilbur Avenue
Antioch, CA

EDR SITE TAG: 131

HDR SITE NUMBER: W-31

FACILITY TYPE / FEATURES:

Electrical power generating station

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

CORRACTS, CERC-NFRAP

OTHER COMMENTS:



VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: SOUTHWEST

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

E.I. Dupont De Nemours

ADDRESS:

6000 Bridgehead Road
Antioch, CA

EDR SITE TAG: 136

HDR SITE NUMBER: W-32



VIEW TOWARD THE: SOUTHWEST

FACILITY TYPE / FEATURES:

Closed industrial facility undergoing remediation

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

CORRACTS, CERC-NFRAP

OTHER COMMENTS:

Tetraethyl lead/Freon manufacturing plant 1955
to 1998, extensive groundwater impacts
throughout the site.

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>

DISCLAIMER: *The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.*

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Marine Emporium

ADDRESS:

5993 Bethel Island Road
Bethel Island, CA

EDR SITE TAG: 145

HDR SITE NUMBER: W-33

FACILITY TYPE / FEATURES:

Marine repair shop

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

CA WDS, Contra Costa Co. Site List

OTHER COMMENTS:



VIEW TOWARD THE: NORTHWEST



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input checked="" type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

DISCLAIMER: The data provided on the Site Data Forms, including the "Impact Probability" section, should not be considered as an independent summary of the entire contents of the ISA report. The Site Data Forms are intended to assist the client in making judgments about risk of contamination, and include subjective judgments and observations specific to the site, the assessor, and the ISA process. The final judgment of risk, and appropriate action relating to the information provided in the ISA report, is solely that of the client. The information provided in the ISA is limited to observable, obtainable public information and the interpretation of that information by the assessor.

HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Bethel Island Golf Course

ADDRESS:

3303 Gateway Road
Bethel Island, CA

EDR SITE TAG: 123

HDR SITE NUMBER: W-34

FACILITY TYPE / FEATURES:

Public golf course with onsite fueling

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

Open LUST case

OTHER COMMENTS:

Fueling island located at west side of clubhouse.



VIEW TOWARD THE: NORTH



VIEW TOWARD THE: WEST

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Mill Site A

ADDRESS:

Latitude; 38.26690

Longitude: 121.64000

EDR SITE TAG: None

HDR SITE NUMBER: W-35



VIEW TOWARD THE: NORTHWEST

FACILITY TYPE / FEATURES:

Agricultural mill

REGULATORY LISTING AND OBSERVATIONS RELATING TO:

No regulatory listing

OTHER COMMENTS:

Large agricultural mill with outbuildings, considerable debris. Historic aerial photographs show that the facility has been present since 1972. Most of the debris has accumulated since the 1999 aerial photograph.



VIEW TOWARD THE: SOUTHWEST

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

SITE NAME:

Baldocchi Property

ADDRESS:

6390 Sellers Avenue
Oakley, CA

EDR SITE TAG: 168

HDR SITE NUMBER: W-36



VIEW TO THE: SOUTH

FACILITY TYPE / FEATURES:

Agricultural land

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open ENVIROSTOR case

OTHER COMMENTS:

Site has been used as agricultural land since at least 1939. Preliminary investigation indicates that soil may be impacted with pesticides.

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

Bay Standard

ADDRESS:

24485 Marsh Creek Road
Brentwood, CA

EDR SITE TAG: 201

HDR SITE NUMBER: W-37

FACILITY TYPE / FEATURES:

Metal and metal plating manufacturing plant

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open ENVIROSTOR case

OTHER COMMENTS:

Zinc contamination confirmed in soil and
sediment at site.

IMPACT PROBABILITY:

ONSITE	HIGH	<input checked="" type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input type="checkbox"/>
OFFSITE	HIGH	<input type="checkbox"/>	MEDIUM	<input type="checkbox"/>	LOW	<input type="checkbox"/>	INDETERMINATE	<input checked="" type="checkbox"/>

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

Excelsior Middle School

ADDRESS:

14401 Byron Highway
Byron, CA

EDR SITE TAG: 216

HDR SITE NUMBER: W-38

FACILITY TYPE / FEATURES:

Middle school

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open ENVIROSTOR case

OTHER COMMENTS:

Site previously used for agricultural purposes;
potential arsenic impact to soil.

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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HDR SITE DATA FORM

Bay Delta Conservation Plan ISA

DATE OF RECONNAISSANCE:

March 2-5, 2009

No Photograph Available

SITE NAME:

Castle Minerals

ADDRESS:

45 Main Street
Rio Vista, CA

EDR SITE TAG: 91

HDR SITE NUMBER: W-39

FACILITY TYPE / FEATURES:

Unknown; has leaking UST

**REGULATORY LISTING AND
OBSERVATIONS RELATING TO:**

Open LUST case

OTHER COMMENTS:

Site not located during site reconnaissance.

IMPACT PROBABILITY:

ONSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

OFFSITE HIGH ☐ MEDIUM ☐ LOW ☐ INDETERMINATE ☒

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