

APPENDIX 5.14A

# Phase I Environmental Site Assessment

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# ***Advantage Environmental Consultants, LLC***

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## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

Power Generating Plant  
3497 Main Street  
Chula Vista, California 91911

AEC Project No. 06-018A-SD  
November 21, 2006

*Prepared for:*

MMC North America, LLC  
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*Prepared by:*

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November 21, 2006

Mr. Denis Gagnon  
MMC North America, LLC  
26 Broadway, Suite 907  
New York, NY 10004

Subject: **Phase I Environmental Site Assessment**  
**3497 Main Street**  
**Chula Vista, California 91911**  
**AEC Project No. 06-018SD**

Dear Mr. Gagnon:

Advantage Environmental Consultants, LLC (AEC) has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E 1527-05, of the above referenced property. This ESA included public environmental agency and historical record reviews, interviews, site observations, and report preparation. This report includes AEC's findings, conclusions, recommendations, and supporting documentation.

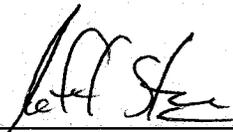
We appreciate the opportunity to be of continued service on this project. If you should have any questions regarding this report, or if we can be of further assistance, please contact Dan Weis at (760) 744-3363.

Sincerely,

**ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC**



\_\_\_\_\_  
Daniel Weis, REA I  
Branch Manager  
Western Regional Division



\_\_\_\_\_  
Jeffrey Stein, P.G.  
Principal

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## 1.0 Executive Summary

### 1.1 Summary and Findings

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At the request of MMC North America, LLC (MMC), Advantage Environmental Consultants, LLC (AEC) conducted a Phase I Environmental Site Assessment (ESA), in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Practice E 1527-05, of the property located at 3497 Main Street in Chula Vista, California (hereinafter referred to as the "Site").

The southern portion of the Site is currently developed with a combustion turbine generating facility (electrical power generating plant). The northern portion of the Site consists of an unimproved lot that is anticipated to be used for efficiency improvements to the existing power plant. Improvements on the Site include a control room, generator room, engine package room, and continuous emissions monitoring system area. Various auxiliary improvements that exist at the Site include a holding pond, ammonia tank, and a series of compressors. A drive area encircles the current improvements. A few metal storage bins are located in the western portion of the Site.

No evidence of underground storage tanks (USTs) was observed in visible portions of the Site. One 750-gallon oil aboveground storage tank (AST) in a subsurface concrete vault and one 12,000-gallon ammonia hydroxide AST are present on the Site and used as part of the power generating process. In addition, one water containing AST (capacity unknown) and a few water filtration related ASTs were observed at the Site. Staining was not observed in the tank areas. There are a series of floor drainages/sumps within the power generating plant used to catch oil should a release occur. Neither staining nor free floating liquids were observed in the drain or sump areas at the time of the Site reconnaissance. Several drums of oil (usable and waste) and other containers of chemical materials and wastes were also observed by AEC during the Site reconnaissance. No significant staining was observed adjacent to the drums and containers. In addition, spill containment systems were in place as well as other spill kits at several locations at the Site in case of spillage outside of the containment areas.

AEC reviewed Federal and State environmental databases provided by Track Info Services (TIS), for information pertaining to documented and/or suspected releases of regulated hazardous substances and/or petroleum products within specified search distances. The Site was not listed on any of the searched regulatory databases. Several properties located in the near and general vicinity of the Site are listed on the various regulatory databases but are not expected to have adversely impacted the subject Site. Local regulatory inquiries completed during this assessment did not reveal significant environmental concerns pertaining to the Site.

Historical resources reviewed during the preparation of this ESA included aerial photographs, city directories and topographic maps. According to the resources reviewed, the Site was used as a junkyard from sometime between 1980 to 1990 until a time between 1990 to 2002 when it was developed (and likely graded) as a power

generating plant. Prior to its use as a junkyard, the Site was vacant and undeveloped. Adjacent properties have been historically used for residential, commercial and junkyard/salvage related purposes.

## **1.2 Conclusions and Recommendations**

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This assessment has revealed no evidence of recognized environmental conditions in connection with the Site. Additional environmental investigation at the Site is not considered warranted at this time. Our opinion regarding environmental conditions at the Site is partially based its existing land use (light-industrial-power generating plant).

As revealed during the historical aerial photograph review, the Site was used as a junkyard from sometime between 1980 to 1990 until a time between 1990 to 2002 when it was developed (and likely graded) as a power generating plant. Stained or suspect soil was not observed on-Site during AEC's reconnaissance. However, if stained or suspect soil is encountered during grading or other construction activity associated with the potential power plant efficiency upgrade it should be evaluated by a qualified environmental consultant and handled in accordance with applicable laws and regulations. In addition, if soil is to be exported from the Site during potential grading or construction activity, it should be sampled and analyzed for petroleum hydrocarbons and lead prior to exportation to receiving sites. Such testing will reduce MMC's liability with respect to soil potentially impacted by the former junkyard activity.

The current property owner did not respond to interview requests during the preparation of this assessment. Aside from the lack of a formal interview with the current owner of the Site, no deviations from the ASTM-2005 standard are noted. If the current property owner is interviewed at a later date and the information provided is pertinent to potential adverse environmental conditions at the Site, an addendum to this report will be provided and modifications to the conclusions and recommendations (if required) will be presented. If the interview does not result in information pertinent to adverse environmental conditions, additional reporting regarding the interview will not be provided.

## 2.0 Introduction

### 2.1 Purpose

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The purpose of this Phase I ESA is to provide a professional opinion on the presence of recognized environmental conditions and other potential environmental conditions in connection with the Site, as they existed on the date of the site inspection, and to recommend whether further investigation is required. ASTM Standard Practice E 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, defines good commercial and customary practice for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants pertinent to the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), as well as petroleum products. As such, this ESA is intended to satisfy one of the requirements that permit the user to qualify for the bona fide prospective purchaser, innocent landowner or contiguous property owner liability protections under the Brownfields Revitalization Act (also known as the 2002 Brownfields Amendments) of CERCLA. In other words, this ESA represents one of the practices that constitute “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined in 42 USC Section 9601(35)(B) and 40 CFR Part 312.

The goal of the process is to identify recognized environmental conditions, which are defined by the Practice as “the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into the structures on the property or into the ground, groundwater or surface water of the property”. The term *recognized environmental condition* includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis 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 appropriate governmental agencies.

### 2.2 Scope of Services

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The Phase I ESA was conducted in accordance with generally accepted Phase I industry standards using ASTM Standard Practice E 1527-05 and AEC Proposal Number 06-069SD. The following services were provided for this assessment:

- An evaluation of information contained within Federal, State and local environmental databases within specific search distances.
- An evaluation of past Site uses through a review of reasonably obtainable standard historical sources such as historical topographic maps, aerial photographs, prior

environmental reports, City of Chula Vista Building and Fire Department records and city directories.

- An evaluation of additional regulatory information pertaining to the Site obtained directly from the San Diego County Air Pollution Control District (APCD), the San Diego County Department of Environmental Health (DEH) and the City of Chula Vista Planning Department.
- A qualitative evaluation of the physical characteristics of the Site through a review of published topographic, geologic, and hydrogeologic maps; published groundwater data; and area observations to characterize surface water flow in the Site area.
- An evaluation of current Site conditions including, but not limited to, a search for the following items including: storage tanks (above or below ground); potential Polychlorinated Biphenyl (PCB)-containing electrical equipment; hazardous materials and petroleum products generation; treatment, storage, or disposal of hazardous, regulated, or medical wastes.
- The preparation of a Phase I ESA report, which represents the findings from the studies of the items described above and provides conclusions and recommendations based on the information gathered above and provided by the Client.

### **2.3 Limitations and Exceptions**

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This Phase I ESA was conducted in accordance with ASTM guidelines for the performance of Phase I Environmental Site Assessments. No other warranties either express or implied, are made by AEC. AEC's evaluations, analyses, and opinions should not be taken as representations regarding subsurface conditions or the actual value of the Site. Subsurface conditions may differ from the conditions implied by the surficial observations, and can only be reliably evaluated through intrusive techniques.

Documentation and data provided by MMC, designated representatives of MMC, or other interested third parties, or from the public domain, and referred to in the preparation of this assessment, are assumed to be complete and correct and have been used and referenced with the understanding that AEC assumes no responsibility or liability for their accuracy. AEC's conclusions are based upon such information and documentation and on our observations of Site conditions, as they existed on the date of the site inspection. Because Site conditions may change significantly over a short period of time and additional data may become available, data reported and conclusions drawn in this report are limited to current conditions and may not be relied upon on a significantly later date.

Reasonable efforts have been made during this assessment to uncover evidence of USTs, ASTs and ancillary equipment associated with these tanks. "Reasonable efforts" are limited to information gained from visual observation of unobstructed areas, recorded database information held in public record, and available information gathered from

interviews. Such methods may not identify subsurface equipment that may have been hidden from view due to paving, construction or debris pile storage, or incorrect information from sources.

This investigation was not an environmental compliance audit. While some observations and discussion in this report may address conditions and/or operations that may be regulated, the regulatory compliance of those conditions and/or operations is outside the scope of this investigation.

Nothing in this report constitutes a legal opinion or legal advice. For information regarding specific individual or organizational liability, AEC recommends consultation with independent legal counsel.

## **2.4 User Reliance**

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This report is intended exclusively for the use and benefit of MMC. This report is not for the use or benefit of, nor may it be relied upon by, any other person or entity for any purpose without the advance written consent of AEC. AEC makes no representation to any third party except that it has used the degree of care and skill ordinarily exercised by a reasonable prudent environmental professional in the same community and in the same time frame given the same or similar facts and circumstances. No other warranties are made to any third party, either express or implied.

### 3.0 Site Description

#### 3.1 Location and Legal Description

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The Site is 3.82-acres in size, has a physical address of 3497 Main Street, Chula Vista, California, and identified by San Diego County Assessor's Parcel Number 629-062-04-00. The Site is located south of Main Street with an approximate set back of 835 feet. No Site frontage exists along Main Street and egress/ingress is provided by an unimproved access road which runs along the eastern property line. A vicinity map is included in Appendix A.

#### 3.2 Current Use of the Site

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The southern portion of the Site is currently developed with a combustion turbine generating facility (electrical power generating plant). The northern portion of the Site consists of an unimproved lot that is anticipated to be used for efficiency improvements to the existing power plant.

#### 3.3 Description of Improvements

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Improvements on the Site include a control room, generator room, engine package room, and continuous emissions monitoring system area. Various auxiliary improvements that exist at the Site include a holding pond, ammonia tank, and a series of compressors. A drive area encircles the current improvements. A few metal storage bins are located in the western portion of the Site. The northern portion of the Site is vacant land which appears to have previously been graded. A Site Plan is included in Appendix B.

#### 3.4 Current Uses of Adjoining Properties

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The area surrounding the Site consists primarily of commercial land uses. AEC performed a visual inspection of adjoining properties from the subject Site property lines. The following table identifies the adjacent property uses:

Direction	Adjoining Property Use
North	Esparza Tires at 3487 Main Street, portions of which are used as an automobile salvage yard
East	Redevelopment project (graded lots with concrete slabs)
South	Otay River basin
West	Commercial buildings at 3441, 3451, and 3461 Main Street

## **4.0 User Provided Information**

### **4.1 Reason for Performing Phase I ESA**

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MMC (user of this report) retained AEC to conduct this Phase I ESA in connection with the potential efficiency upgrades the power generating plant at the Site to identify any environmental issues, which may be present. MMC currently leases the Site from John and Carole Marquez (Site owners).

### **4.2 Specialized Knowledge, Commonly Known or Reasonably Ascertainable Information, and Obvious Indicators of Contamination**

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AEC was not informed by the client of specialized knowledge, commonly known/reasonably obtainable information, or obvious indicators of contamination pertinent to potential recognized environmental conditions at the Site.

### **4.3 Valuation Reduction for Environmental Issues**

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AEC was not informed by the client of any information pertaining to the relationship of the lease terms to the estimated fair market lease rate of the property that might indicate that significant contamination exists.

### **4.4 Title Records**

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AEC was provided with a preliminary title report pertaining to the Site dated December 2, 2005 and issued by Fidelity National Title Company. No environmentally related liens, deed restrictions or institutional/engineering controls were noted in the title report.

### **4.5 Environmental Liens or Activity and Use Limitations**

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AEC was not notified by the client of any environmental related liens or activity use limitations (i.e. engineering or institutional controls) that are related to potential environmental issues at the Site.

### **4.6 Owner, Property Manager, and Occupant Information**

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As stated previously, the Site is currently owned by John and Carole Marquez and leased by MMC. A questionnaire (Appendix C) to be completed by the current property owner was provided to the client for delivery. The questionnaire has not been returned to AEC at the time of this report and represents a deviation from the ASTM-2005 standard.

Subsequent interviews were completed with Mr. Denis Gagnon and Mark Wellarg (plant manager) of MMC. Information obtained from the interviews is included in pertinent sections of this report.

## 5.0 Records Review

AEC reviewed Federal and State environmental databases provided by TIS, for information pertaining to documented and/or suspected releases of regulated hazardous substances and/or petroleum products within specified search distances.

AEC also reviewed the unmappable sites listed in the environmental database report by cross-referencing addresses and site names. Unmappable (“non geocoded”) sites are sites that cannot be plotted with confidence, but can be located by zip code or city name. In general, a site cannot be mapped because of inaccurate or missing location information in the record provided by the regulatory agency. Any unmappable sites that AEC identified within the specified search radii are included and discussed in the corresponding database sections. A copy of the TIS report is included as Appendix D

### 5.1 Federal Database Reviews

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#### ***National Priorities List (NPL)***

The National Priorities List (Superfund) is the EPA’s database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund Program. This database was last updated on August 8, 2006.

- Neither the Site nor properties mapped within one mile of the Site are listed on the NPL database.

#### ***Delisted National Priorities List (NPL)***

The Delisted National Priorities List is the EPA’s database of delisted hazardous waste sites identified for priority remedial actions under the Superfund Program. This database was last updated on August 8, 2006.

- Neither the Site nor properties mapped within one-half mile of the Site are listed on the Delisted NPL database.

#### ***Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)***

The CERCLIS List is a compilation of known and suspected uncontrolled or abandoned hazardous waste sites which are, or were, under investigation by the EPA but have not been elevated to the status of a Superfund (NPL) site. This database was last updated on June 8, 2006.

- Neither the Site nor any properties mapped within one-half mile of the Site are listed on the CERCLIS database.

### ***CERCLIS No Further Remedial Action Planned (NFRAP)***

The CERCLIS-NFRAP List is a database of archived CERCLIS sites that to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list them on the NPL. This database was last updated on June 8, 2006.

- Neither the Site nor properties mapped within one-half mile of the Site are listed on the CERCLIS-NFRAP database.

### ***RCRA Treatment, Storage, and Disposal (TSD) Facilities***

The Resource Conservation and Recovery Act (RCRA)-TSD database is a compilation by the USEPA of reporting facilities that transport, treat, store, or dispose of hazardous waste. This database was last updated on April 16, 2006.

- Neither the Site nor any properties mapped within a one-half mile radius are listed on the RCRA-TSD database.

### ***RCRA CORRACTS***

The RCRA CORRACTS database identifies TSD facilities that have conducted, or are currently conducting, corrective actions as regulated under RCRA. This database was last updated on April 16, 2006.

- Neither the Site nor any properties mapped within a one mile radius are listed on the RCRA-CORRACTS database.

### ***RCRA Generators***

The RCRA Generators database tracks large quantity generators (LQG) and small quantity generators (SQG) of hazardous waste. This database includes Hazardous Waste Information Systems and Toxic Substances Control Act list and was last updated on April 16, 2006.

- Neither the Site nor properties mapped within one-eighth mile of the Site are listed on the RCRA generators database.

### ***RCRA No Longer Regulated (NLR)***

The RCRA NLR database lists facilities not currently classified by the EPA but still remain in the RCRA database. This database was last updated on April 16, 2006.

- Neither the Site nor properties mapped within one-eighth mile of the Site are listed on the RCRA NLR database.

### ***Emergency Response Notification System (ERNS) Database***

The ERNS is a national database used to collect information on reported releases of oil or hazardous substances. The ERNS database is now part of the National Response Center (NRC) database. This database was last updated on December 31, 2005.

- Neither the Site nor properties mapped within one-eighth mile of the Site are listed on the ERNS database.

### ***Federal IC/EC Database***

This database is managed by the United States EPA and includes listings of properties with engineering (EC) and/or institutional controls (IC) in place. ICs are legal covenants that restrict land use to protect public health and the environment. They are often used in combination with physical or engineering controls (EC). ICs/ECs ensure that future land use activities do not violate physical barriers, impair the effectiveness of the remedy, or otherwise expose people and the environment to contamination in a manner that poses an unacceptable risk. The database also includes a listing of Brownfield sites. This database was last updated on July 17, 2006.

- Neither the Site nor properties mapped within one-eighth mile of the Site are listed on the Federal IC/EC database.

### ***Tribal Lands***

This database is a list of areas that the Federal Government recognizes territories in which American Indian tribes are the primary governmental authority. The Tribal Lands database shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. The database includes Federally-administered lands within a reservation which may or may not be considered part of the reservation. This database was last updated on December 1, 2005.

- Neither the Site nor properties mapped within one-half mile of the Site are listed on the Federal Land Use database.

## **5.2 State Database Reviews**

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### ***State Sites***

The State Sites database is a compilation of information and sub-databases maintained by the California EPA, Department of Toxic Substances Control (DTSC). Such information includes lists of properties that are known to be contaminated with hazardous substances as well as information regarding properties that are uncharacterized where further studies may reveal problems. The database also includes voluntary cleanup sites (VCP) and properties with recorded environmentally related liens and deed restrictions. This database was last updated on May 4, 2005.

- The Site does not appear on the State Sites database.
- One property mapped 0.20-mile northwest of the Site is listed on the State Sites database under the VCP. The property is identified as Reliable Waste, Inc. at 3441 Main Street. Portions of this former facility are located on the western adjacent property of the Site. According to information provided in the database, during grading at this property for commercial redevelopment, several 5-gallon containers of organic solvent were uncovered. A few of the containers were damaged with chemicals released to soil. Construction debris was also encountered during grading. Cleanup at the Site was completed and no further action was required by the California DTSC. Based on the information provided in the database, this property is not expected to have adversely impacted the subject Site.

### ***Spills-1990***

This database is maintained by the California Regional Water Quality Control Board (RWQCB) and lists sites that have a record of spills, leaks, investigation and cleanups. This database was last updated on July 1, 2003.

- Neither the Site nor properties mapped within one-eighth mile of the Site are listed on the Spills-1990 database.

### ***Solid Waste Landfill Facilities (SWL)***

SWL facilities within the State of California are regulated by the California Integrated Waste Management Board (CIWMB). The lists provided by the CIWMB and searched include Solid Waste Transfer Stations, Inactive Solid Waste Facilities, and the Solid Waste Facilities Database. This database was last updated on July 21, 2006.

- The Site is not listed on the SWL database.
- Three properties mapped between 0.22-mile to 0.31-mile from the Site are listed on the SWL database. Two of the properties (3487 and 3236 East Main Street) are referenced as active tire disposal facilities. A portion of the 3487 Main Street property is located on the northern adjacent property of the Site. The third SWL facility is identified as Mace Street Trash TS at 187 Mace Street. This property is a proposed facility and reportedly not in use at this time. Based on the use of the properties listed on SWL database, these properties are not expected to have adversely impacted the subject Site.

### ***Underground Storage Tank Database (UST)***

The UST database is a combination of information sources maintained by the Cal EPA and Federal EPA, with the primary sources being from State agencies. Some information from local agencies is also included in this database. Properties on the list include either ASTs or USTs. This database was last updated on August 16, 2006.

- Neither the Site nor properties mapped within one-eighth mile of the Site are listed on the UST database.

### ***Leaking Underground Storage Tanks (LUST)***

The LUST database is maintained by the California RWQCB and lists properties with known releases from USTs. This database was last updated on July 21, 2006.

- The Site is not listed on the LUST database.
- There are three properties mapped between one-eighth to one-quarter mile from the Site and ten properties mapped between one-quarter mile to one-half mile from the Site that are listed on the LUST database. Of the 13 LUST properties, ten are listed with closed status. The three properties listed with open status are referenced with case types of "soil only" or "undefined." Based on the distance of the LUST properties from the Site and supplemental information obtained from the RWQCB Geotracker database pertaining to groundwater flow direction in the area, the LUST properties are not expected to have adversely impacted the subject Site. The Reliable Waste, Inc. property at 3441 Main Street (referenced previously in the State Sites database section) is also listed on the LUST database with closed status and not expected to have adversely impacted the subject Site. As stated previously, portions of this former facility are located on the western adjacent property of the Site.

### ***State Brownfields/ IC/EC Databases***

These databases are managed by the California EPA DTSC and include listings of properties with engineering and/or institutional controls in place as well as Brownfield properties. The databases were last updated on March 27, 2006.

- Neither the Site nor properties located within one-eighth mile of the Site are listed on the State /IC/EC databases.
- Neither the Site nor properties located within one-half mile of the Site are listed on the State Brownfields database.

## **5.3 Local Regulatory Agency Research**

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### ***San Diego County DEH***

The San Diego County DEH database was searched by TIS in the above-referenced regulatory database report. The database lists properties that handle hazardous materials, generate hazardous waste and/or are locations of current or former USTs. Neither the Site nor properties mapped within one-eighth mile of the Site are listed on this database. AEC submitted a request to DEH to review regulatory files pertaining to the Site maintained by this agency. Copies of the file contents were provided by AEC and

included correspondence between MMC and DEH from May through July, 2006. According to the information in the file, hazardous wastes generated at the power plant facility include waste oil, occasional waste glycol coolant, oil contaminated rages/absorbent, used oil filter and used batteries. Neither USTs nor prior subsurface assessment/soil boring activity were referenced for the Site in the file. A compliance inspection of the Site was completed by DEH on May 11, 2006 with no violations reported. Information obtained from the DEH file is included in Appendix E

### ***San Diego County Air Pollution Control District (APCD)***

AEC submitted a request to the San Diego County APCD to review regulatory files pertaining to the Site maintained by this agency. The file was reviewed at the APCD offices by an AEC representative. According to information reviewed in the file, the Site is currently permitted to operate under the APCD as a natural gas fired, gas turbine system equipped with dry-type combustors, a selective catalytic reduction system, an automatic ammonia injection system, a continuous emissions monitoring system and data acquisition/recording system. The current permit and was approved on June 13, 2006 and will expire on February 1, 2007. No violations for the facility were noted in the APCD file since the permit approval date of June 13, 2006. Information obtained from the APCD file is included in Appendix F

### ***City of Chula Vista Fire Department***

AEC requested information from the Chula Vista Fire Department (CVFD) pertaining to USTs at the subject Site. No records pertaining to USTs at the Site are on file with this Department.

### ***City of Chula Vista Building Department***

AEC requested information from the Chula Vista Building Department pertaining to the Site. Several historical permits were on file with the Department, none of which indicate the presence of USTs or significant environmental concerns. The permit numbers and brief description of the permitted activity (as provided by the Department) are listed below:

- B01-3602 equipment enclosure
- B01-3895 Ph 10; enclosure; wall; gas compressor
- B01-4226 foundation for gas compressor; vent support
- B01-5179 sound wall
- B01-2083 equipment enclosure w/elec & plumb
- B01-3066 equipment foundations
- B00-5283 foundation - 2 engines
- B01-0466 Ph 1 electrical
- B01-1237 bus duct; pipe support foundation
- B01-0016 foundation for transformer
- B01-1017 substation equipment & glycol cooler foundation
- B01-0692 control skid foundation
- B01-0665 lube, oil, fog skid foundation

- B00-4947 foundation for 2 engines
- B00-5233 select catalytic reduct
- B01-1773 electrical

### ***City of Chula Vista Planning Department***

According to the City of Chula Vista Planning Department, the Site is zoned I-L (Limited Industrial).

## **5.4 Physical Setting Sources**

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The following physical setting sources were reviewed to provide information about the topographic, hydrologic, geologic and/or hydrogeologic characteristics of the Site.

### **5.4.1 Topography and Hydrology**

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#### ***USGS Topographic Quadrangle***

Based on a review of the United States Geological Survey (USGS) 7.5 Minute Series, Imperial Beach, CA Topographic Quadrangle map dated 2002, the elevation of the Site is approximately 60 feet above mean sea level (msl). No structures are depicted on-Site on the map. Portions of an unimproved road are depicted on or adjacent to the southern portion of the Site.

#### ***Hydrology/Storm Water Management***

Slope and surface drainage patterns on the Site are to the south and southwest toward the Otay River. Surface drainage at the Site is facilitated by catch basins which are ultimately discharged into a holding pond at the western portion of the Site. A concrete drainage swale is present in the northern portion of the Site. The Site does not appear to receive significant drainage from off-site properties.

### **5.4.2 Geology**

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The Site lies within the Peninsular Ranges Geologic Province of California. This geomorphic province is traversed by a group of northwest trending sub-parallel fault zones and encompasses an area that extends 125 miles from the Transverse Ranges and the Los Angeles Basin south to the Mexican Border and beyond another 775 miles to the tip of Baja California. Rocks within the Peninsular Range Province were emplaced during Cretaceous age orogenic events and uplifted into the present mountain ranges during the late Tertiary and Quaternary. Igneous, metamorphic and sedimentary rocks are all found within the Peninsular Ranges. According to geologic map sources, the Site appears to be underlain by stream terrace deposits consisting of unconsolidated sand and gravel. The Site appears to be located within or adjacent to the potentially-active La Nacion Fault Zone but it is not located within an Alquist-Priolo Fault Zone. No faults are mapped on the subject Site.

### 5.4.3 Hydrogeology

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The Site is situated within the Otay Valley Hydrologic Subarea (HA) of the Otay Hydrologic Unit (SWRCB, 1994). Groundwater within the Otay Valley HA has existing beneficial use designations for municipal, agricultural and industrial supply purposes. According to information obtained from the California RWQCB Geotracker database, groundwater beneath the Site is likely present at a depth of approximately 40 feet below the ground surface and is presumed to flow in a southwesterly direction in accordance with regional topographic gradient. Groundwater depth and flow direction beneath the Site may vary due to local faulting and other factors.

### 5.5 Historical Use Information

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The following historical sources were reviewed to develop a history of the previous uses of the Site and surrounding area in order to help identify the likelihood of past uses having led to recognized environmental conditions in connection with the Site.

#### 5.5.1 Prior Environmental Report

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AEC completed a Phase I ESA of the Site on April 4, 2006. At the time of the report, the Site was developed in its current configuration. The assessment revealed no evidence of recognized environmental conditions in connection with the Site and additional environmental investigation was not recommended.

#### 5.5.2 Aerial Photographs

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AEC reviewed aerial photographs dated 1953, 1963, 1974, 1980, 1990 and 2002 provided by TIS. The results of the aerial photograph reviews are summarized in the following table:

Aerial Photograph Review	
Year	Observations
1953	<b>SITE:</b> The Site appears to be vacant, undeveloped and covered with varying amounts of vegetation. <b>SURROUNDING AREA:</b> Adjacent properties are vacant and undeveloped. An access road is visible along a portion of the eastern property line. Structures are visible to the north along Main Street. The Otay River is visible to the south.
1963, 1974	<b>SITE:</b> The Site remains vacant and undeveloped. <b>SURROUNDING AREA:</b> Adjacent properties remain generally vacant and undeveloped. Scattered structures are visible on adjacent properties to the north, east and west. Parked automobiles are also visible on the western adjacent property. Additional structures are visible in the northern vicinity along Main Street.

<b>Aerial Photograph Review</b>	
<b>Year</b>	<b>Observations</b>
<b>1980</b>	<p><b>SITE:</b> The majority of the Site remains vacant and undeveloped. A portion of an unimproved road is visible in the northern area of the Site. A few structures (or possibly vehicles) are visible in the northern portion of the Site.</p> <p><b>SURROUNDING AREA:</b> Eastern, western and southern adjacent properties appear similar to the 1963 and 1974 photographs. Several vehicles are present on the northern adjacent property.</p>
<b>1990</b>	<p><b>SITE:</b> The Site appears to be used as a salvage yard.</p> <p><b>SURROUNDING AREA:</b> The northern and eastern adjacent properties are used as salvage yards. The southern adjacent property remains vacant and undeveloped. Several vehicles are present on the western adjacent property. Properties in the general vicinity appear similar to the 1980 photograph.</p>
<b>2002</b>	<p><b>SITE:</b> The Site appears as occupied by its existing improvements (power generating plant). Portions of the Site not occupied by structures appear to be cleared of vegetation and possibly graded.</p> <p><b>SURROUNDING AREA:</b> The adjacent properties to the north and east appear to be used as salvage yards. The southern adjacent property appears similar to the 1990 photograph. The western adjacent property is now vacant. Properties in the general vicinity appear similar to the 1990 photograph.</p>

Reproductions of the photographs are included in Appendix G

### 5.5.3 Topographic Maps

AEC reviewed topographic maps of the Site as shown on the Imperial Beach, CA Quadrangle dated 1943, 1957, 1967, 1975 and 2002. On all of the maps, structures are not depicted on-Site. Scattered structures are depicted on properties to the north along Main Street on the maps. The Otay River is shown to the south. Reproductions of the topographic maps are included in Appendix H

### 5.5.4 City Directories

AEC reviewed Haines Criss Cross and Polk city directories at the San Diego Main Public Library in approximately five-year increments for the years 1940 through 2005. The results of the city directory review are summarized in the following table:

<b>City Directory Review</b>	
<b>Year</b>	<b>Listings</b>
<b>1940 - 1967</b>	No listings for Main Street

<b>City Directory Review</b>	
<b>Year</b>	<b>Listings</b>
<b>1971-2005</b>	<b>SITE:</b> No listing for the Site. <b>SURROUNDING AREA:</b> Adjoining or nearby properties are noted with light industrial, towing, automotive services, and waste management activities.

### **5.5.5 Fire Insurance Maps**

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Historical fire insurance maps are not available for the Site.

### **5.5.6 State of California Division of Oil and Gas Records**

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According to online resources provided by the California Department of Conservation, Division of Oil, Gas and Geothermal Resources, there are no oil, gas or geothermal wells located on the Site or adjacent properties.

### **5.5.7 Interview Information**

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As stated previously, the Site is currently owned by John and Carole Marquez and leased by MMC. An interview questionnaire (included in Appendix C) to be completed by the current property owner was provided to the client for delivery. The questionnaire has not been returned to AEC at the time of this report and represents a deviation from the ASTM-2005 standard. Prior owners of the Site were also not available for interviews during the preparation of this assessment.

Subsequent interviews were completed with Mr. Denis Gagnon and Mark Wellarg (plant manager) of MMC. Information obtained from the interviews is included in pertinent sections of this report.

## 6.0 Site Reconnaissance

The objective of the Site reconnaissance was to obtain information indicating the likelihood of recognized environmental conditions in connection with the Site. The reconnaissance was conducted on October 18, 2006 by Mr. Dan Weis of AEC's Western Regional office. Mr. Weis was escorted during the Site reconnaissance by Mark Wellarg (plant manager).

### 6.1 Methodology and Limiting Conditions

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The Site reconnaissance consisted of walking portions of the Site and the public access roads in the surrounding area of the Site. As stated previously, a Site Plan is included as Appendix B. Photographs of the Site were taken to document existing Site conditions and are included and described in Appendix I

### 6.2 Hazardous Substances and Petroleum Products

---

The following chemical storage was observed at the time of the Site reconnaissance:

Chemical Storage			
Type of Material	Approximate Quantities	Storage Location	Use
Oil	Several 5-gallon containers	Workshop area	On-Site equipment
Oil	Four 55-gallon drums	Workshop area	On-Site equipment
Miscellaneous maintenance	Retail size quantities; original containers	Workshop area	Maintenance
Oil	750-gallon storage tank	750-gallon storage tank located in a below-grade cement vault, 100% containment system adjacent to the main generator	Generator
Ammonia hydroxide	12,000 gallon	12,000-gallon AST, north side of the generator room and turbine engine area; 100% containment system present	Power generating
Inert Gases	Unknown	Several locations; secured	On-Site compressors

At the time of the Site reconnaissance no significant staining was observed. In addition, spill containment systems were in place as well as other spill kits at several locations for mitigation purposes in case of spillage outside of the containment areas. The observed maintenance materials and compressed cylinders were observed to be secured with no evidence of spillage and/or leakage. The storage of such materials does not represent a significant environmental concern.

### 6.3 Waste Generation, Storage and Disposal

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The following wastes were observed at the time of the Site reconnaissance:

Chemical Storage			
Type of Material	Approximate Quantities	Storage Location	Use
Waste oil	Several 55-gallon drums	Storage area on west side of generator room; spill containment pallet system present	On-Site equipment
Used rags	Two 55-gallon metal drums	Storage area on west side of generator room; spill containment pallet system present	Maintenance

At the time of the Site reconnaissance no significant staining was observed adjacent to the containers referenced above. In addition, spill containment systems were in place as well as other spill kits at several locations at the Site in case of spillage outside of the containment areas. Mr. Wellarg indicated that wastes are removed from the Site by a contractor licensed to handle such materials and under proper manifesting protocol.

### 6.4 Storage Tanks

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No evidence of USTs was observed in visible portions of the Site. Mr. Wellarg was unaware of the presence of USTs on the Site. As stated previously, one 750-gallon oil AST in a subsurface concrete vault and one 12,000-gallon ammonia hydroxide AST are present on the Site and used as part of the power generating process. In addition, one water containing AST (capacity unknown) and a few water filtration related ASTs were observed at the Site. Staining was not observed in the tank areas. The ASTs are not considered to be a significant environmental concern.

### 6.5 Polychlorinated Biphenyls (PCBs)

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Visible portions of the Site were investigated for the presence of equipment that could contain PCBs. PCBs are toxic coolants or lubricating oils that can be found in oil-filled equipment such as electrical transformers, capacitors, hydraulic elevators and hydraulic service bay lifts. One pad-mounted transformer and other equipment associated with the power generating plant equipment were observed at the Site. No apparent leaks or spills were observed in the transformer areas. No additional hydraulic or suspect PCB-containing equipment was observed in visible portions of the Site. PCBs were commercially banned in 1978; therefore, based on the 2001 construction date of the power generating plant and installation date of the transformers, the transformers are not expected to contain PCBs and are not considered to be a significant environmental concern.

## 6.6 Other Conditions of Potential Concern

AEC also examined the Site for evidence of the following potential environmental conditions:

Conditions	Not Observed or Noted	Observed or Noted	Significant Concern?
Chemical/Petroleum Odors	X		--
Pools of Liquid		X	No
Floor Drains/Sumps/Wells		X	No
Drums		X	No
Stains or Corrosion	X		--
Unidentified Substance Containers	X		--
Stained Soil or Pavement	X		--
Stressed Vegetation	X		--
Pits, Ponds or Lagoons		X	No
Wastewater Discharges	X		--
Septic Systems/Cesspools	X		--

As stated previously, several drums of oil (usable and waste) and other containers of chemical materials and wastes were observed by AEC during the Site reconnaissance and such materials/wastes are not considered to be a significant concern. An empty 55-gallon steel drum was observed along the eastern side of the main structure at the Site.

There is a series of floor drainages/sumps within the power generating plant used to catch oil should a release occur. Neither staining nor free floating liquids were observed in the drain or sump areas at the time of the Site reconnaissance. Mr. Wellarg indicated that a significant spill event has not occurred since MMC assumed operation of the plant.

As stated previously, a concrete lined subsurface holding pond (approximately eight feet deep) covered by metal grating is present in the western portion of the Site. Minor amounts of standing water were observed in the holding pond area. Staining was not observed adjacent or within visible portions of the structure. The holding pond is not considered to be a significant environmental concern.

## **7.0 Findings, Opinion, Conclusions and Recommendations**

Advantage Environmental Consultants, LLC has performed a Phase I Environmental Site Assessment, in conformance with the scope and limitations of ASTM Practice E 1527-05 at 3497 Main Street, Chula Vista, California. Qualifications for the environmental professionals involved in the performance of this ESA are included in Appendix J. Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the Site. Additional environmental investigation at the Site is not considered warranted at this time. Our opinion regarding environmental conditions at the Site is partially based its existing land use (light-industrial-power generating plant).

As revealed during the historical aerial photograph review, the Site was used as a junkyard from sometime between 1980 to 1990 until a time between 1990 to 2002 when it was developed (and likely graded) as a power generating plant. Stained or suspect soil was not observed on-Site during AEC's reconnaissance. However, if stained or suspect soil is encountered during grading or other construction activity associated with the potential power plant expansion it should be evaluated by a qualified environmental consultant and handled in accordance with applicable laws and regulations. In addition, if soil is to be exported from the Site during potential grading or construction activity, it should be sampled and analyzed for petroleum hydrocarbons and lead prior to exportation to receiving sites. Such testing will reduce MMC's liability with respect to soil potentially impacted by the former junkyard activity.

## **8.0 Deviations**

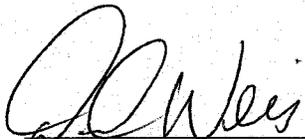
Aside from the lack of a formal interview with the current owner of the Site, no deviations from the ASTM-2005 standard are noted. If the current property owner is interviewed at a later date and the information provided is pertinent to potential adverse environmental conditions at the Site, an addendum to this report will be provided and modifications to the conclusions and recommendations (if required) will be presented. If the interview does not result in information pertinent to adverse environmental conditions, additional reporting regarding the interview will not be provided.

## **9.0 Additional Services**

No additional services were completed by AEC during the preparation of this assessment.

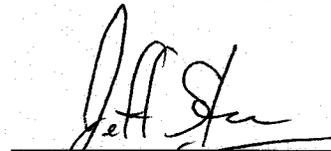
## 10.0 Declarations

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR 312.10. We have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject Site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



---

Daniel Weis, REA



---

Jeffrey Stein, P.G.

## 11.0 References

Advantage Environmental Consultants, LLC, Phase I Environmental Site Assessment dated April 4, 2006;

ASTM, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM Designation E 1527-05;

California Department of Conservation, Division of Mines and Geology, Geology of National City, Imperial Beach and Otay Mesa Quadrangles, Published 1977;

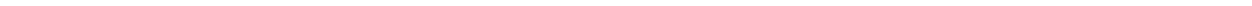
California State Water Resources Control Board, Water Quality Control Plan for the San Diego Basin (9), San Diego, California, Published 2002;

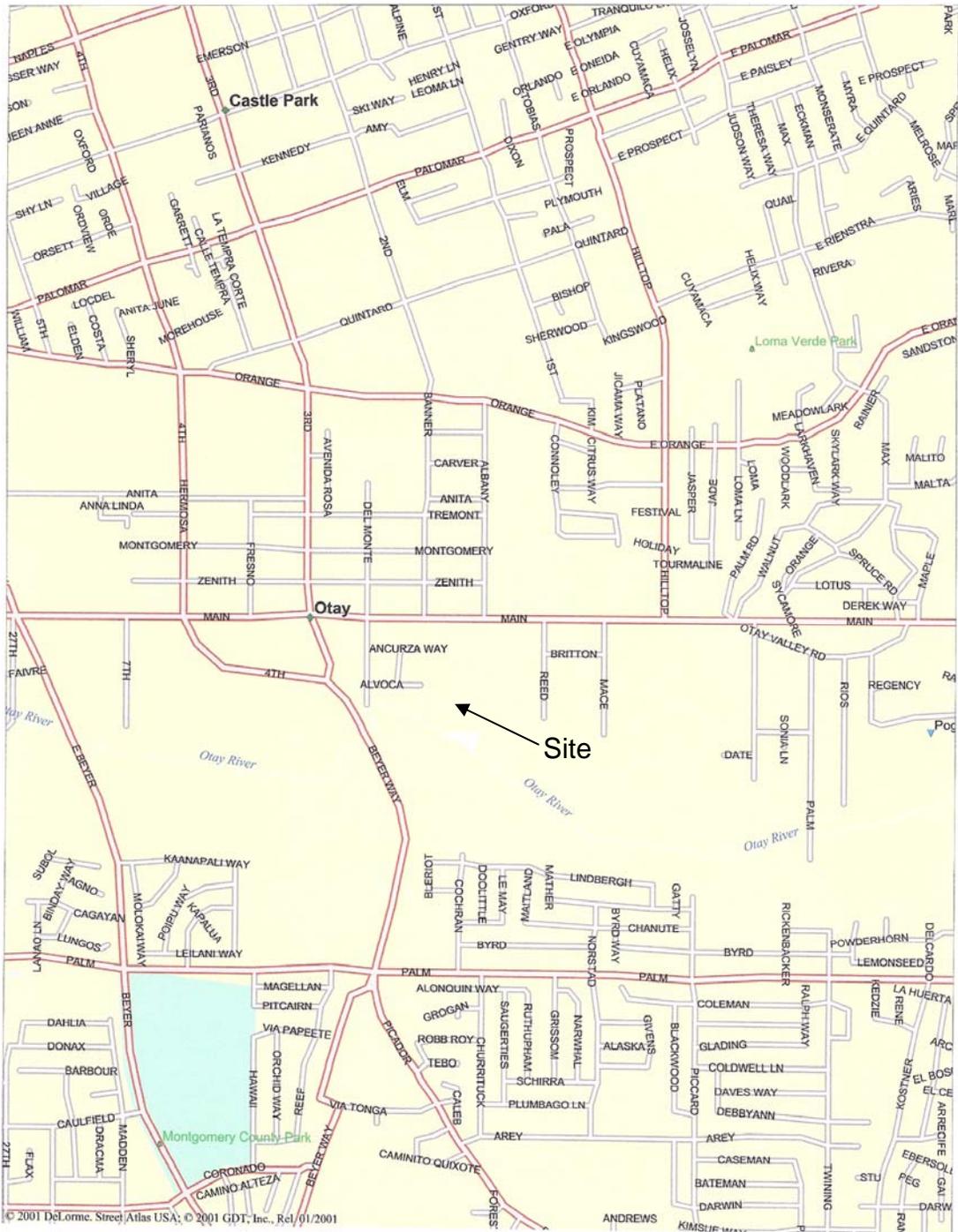
State of California Department of Conservation, Division of Oil and Gas And Geothermal Resources: [http://www.consrv.ca.gov/DOG/maps/index\\_map.htm](http://www.consrv.ca.gov/DOG/maps/index_map.htm);

Track-Info Services historical aerial photograph and topographic map package;

Track-Info Services regulatory database report dated October 16, 2006;

**APPENDIX A  
VICINITY MAP**





© 2001 DeLorme, Street Atlas USA; © 2001 GDT, Inc., Rel 01/2001



North

**ADVANTAGE**  
**ENVIRONMENTAL**  
**CONSULTANTS, LLC.**

810 Los Vallecitos Boulevard, Suite 210  
 San Marcos, CA 92069  
 Phone: 760-744-3363 Fax 760-744-3383

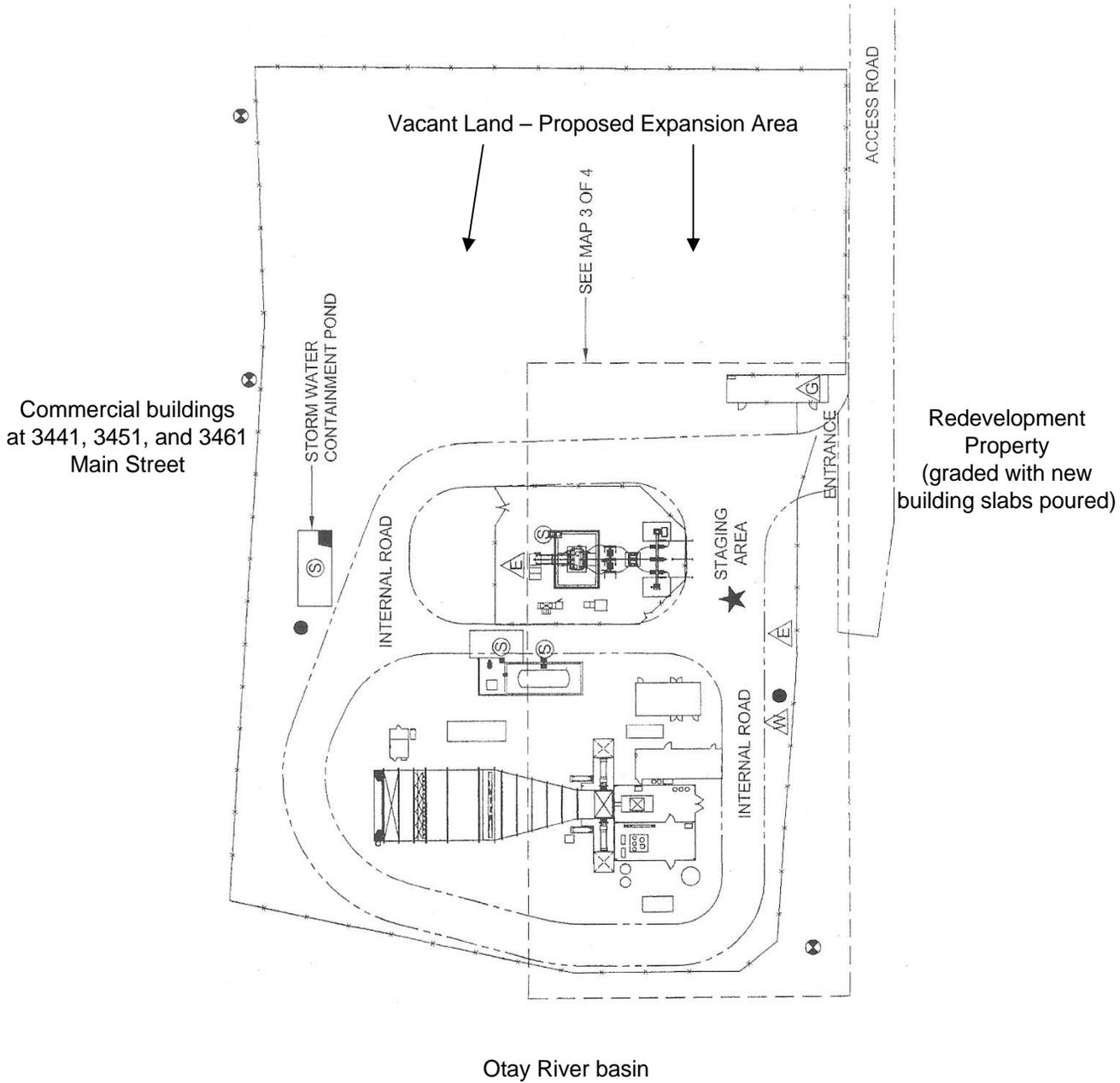
Vicinity Map  
 Power Generating Plant  
 3497 Main Street  
 Chula Vista, California

Work Order No.:	Report Date:	Drawn By:
06-018A-SD	November 2006	DAW

**APPENDIX B**  
**SITE PLAN**

---

Esparza Tires at 3487 Main Street



**ADVANTAGE**  
**ENVIRONMENTAL**  
**CONSULTANTS, LLC.**

810 Los Vallecitos Boulevard, Suite 210  
San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

Site Map  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

Drawn By:  
DAW

**APPENDIX C**  
**INTERVIEW QUESTIONNAIRE**

---



7.) Are you aware of commonly known or reasonably obtainable information that would help AEC to identify conditions indicative of releases or threatened releases of hazardous wastes/materials at the property? Such information includes knowledge of specific chemicals that are present or were once present on the property, spills or other chemicals releases that may have occurred, underground or aboveground storage tanks and environmental cleanups that have been conducted on the property.

8.) Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

9.) Are you aware of any prior environmental assessments/investigations that have been conducted at the subject property or its adjacent/nearby properties?

10.) Do you have any knowledge pertaining to the purchase price of the property when it was last sold in comparison to the fair market value at that time? If there was a significant difference between the purchase price and fair market value, have you considered whether the lower purchase price was due to known or suspect contamination at the property?

**APPENDIX D**  
**TIS REGULATORY DATABASE REPORT**

---

*TRACK ► INFO SERVICES, LLC*

# **Environmental FirstSearch™ Report**

**TARGET PROPERTY:**

**3497 MAIN ST**

**CHULA VISTA CA 91911**

Job Number: 06-018SD

**PREPARED FOR:**

Advantage Environmental

10-16-06



*Tel: (866) 664-9981*

*Fax: (818) 249-4227*

# Environmental FirstSearch Search Summary Report

**Target Site:** 3497 MAIN ST  
CHULA VISTA CA 91911

## FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	08-08-06	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	08-08-06	0.50	0	0	0	0	-	0	0
CERCLIS	Y	06-08-06	0.50	0	0	0	0	-	0	0
NFRAP	Y	06-08-06	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	04-16-06	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	04-16-06	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	04-16-06	0.12	0	0	-	-	-	0	0
RCRA NLR	Y	04-16-06	0.12	0	0	-	-	-	0	0
Federal IC / EC	Y	07-17-06	0.12	0	0	-	-	-	0	0
ERNS	Y	12-31-05	0.12	0	0	-	-	-	0	0
Tribal Lands	Y	12-01-05	0.50	0	0	0	0	-	0	0
State/Tribal Sites	Y	05-04-05	1.00	0	0	1	0	0	0	1
State Spills 90	Y	07-01-03	0.12	0	0	-	-	-	0	0
State/Tribal SWL	Y	07-21-06	0.50	0	0	2	2	-	0	4
State/Tribal LUST	Y	07-21-06	0.50	0	0	5	20	-	0	25
State/Tribal UST/AST	Y	08-16-06	0.12	0	0	-	-	-	0	0
State/Tribal EC	Y	NA	0.12	0	0	-	-	-	0	0
State/Tribal IC	Y	03-27-06	0.12	0	0	-	-	-	0	0
State/Tribal VCP	Y	NA	0.50	0	0	1	0	-	0	1
State/Tribal Brownfields	Y	03-27-06	0.50	0	0	0	0	-	0	0
State Permits	Y	02-11-04	0.12	0	0	-	-	-	0	0
State Other	Y	09-06-05	0.12	0	0	-	-	-	0	0
FI Map Coverage	Y	10-12-06	0.12	0	0	-	-	-	0	0
- TOTALS -				0	0	9	22	0	0	31

### Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to TRACK Info Services, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in TRACK Info Services's databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

### Waiver of Liability

Although TRACK Info Services uses its best efforts to research the actual location of each site, TRACK Info Services does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of TRACK Info Services's services proceeding are signifying an understanding of TRACK Info Services's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

***Environmental FirstSearch  
Site Information Report***

**Request Date:** 10-16-06  
**Requestor Name:** Dan Weis  
**Standard:** AAI

**Search Type:** COORD  
**Job Number:** 06-018SD  
**Filtered Report**

**TARGET ADDRESS:** 3497 MAIN ST  
 CHULA VISTA CA 91911

*Demographics*

<b>Sites:</b> 31	<b>Non-Geocoded:</b> 0	<b>Population:</b> NA
<b>Radon:</b> NA		

*Site Location*

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
<b>Longitude:</b>	-117.058651	-117:3:31	<b>Easting:</b> 494495.874
<b>Latitude:</b>	32.592067	32:35:31	<b>Northing:</b> 3605876.718
			<b>Zone:</b> 11

*Comment*

<b>Comment:</b> RE-RUN WITH FI MAP SEARCH
---

*Additional Requests/Services*

<b>Adjacent ZIP Codes:</b> 0 Mile(s)	<b>Services:</b>																																		
<table border="1"> <thead> <tr> <th>ZIP Code</th> <th>City Name</th> <th>ST</th> <th>Dist/Dir</th> <th>Sel</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	ZIP Code	City Name	ST	Dist/Dir	Sel						<table border="1"> <thead> <tr> <th></th> <th>Requested?</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Sanborns</td> <td>No</td> <td></td> </tr> <tr> <td>Aerial Photographs</td> <td>No</td> <td></td> </tr> <tr> <td>Historical Topos</td> <td>No</td> <td></td> </tr> <tr> <td>City Directories</td> <td>No</td> <td></td> </tr> <tr> <td>Title Search/Env Liens</td> <td>No</td> <td></td> </tr> <tr> <td>Municipal Reports</td> <td>No</td> <td></td> </tr> <tr> <td>Online Topos</td> <td>No</td> <td></td> </tr> </tbody> </table>		Requested?	Date	Sanborns	No		Aerial Photographs	No		Historical Topos	No		City Directories	No		Title Search/Env Liens	No		Municipal Reports	No		Online Topos	No	
ZIP Code	City Name	ST	Dist/Dir	Sel																															
	Requested?	Date																																	
Sanborns	No																																		
Aerial Photographs	No																																		
Historical Topos	No																																		
City Directories	No																																		
Title Search/Env Liens	No																																		
Municipal Reports	No																																		
Online Topos	No																																		

## Environmental FirstSearch Sites Summary Report

**TARGET SITE:** 3497 MAIN ST  
CHULA VISTA CA 91911

**JOB:** 06-018SD  
RE-RUN WITH FI MAP SEARCH

**TOTAL:** 31      **GEOCODED:** 31      **NON GEOCODED:** 0      **SELECTED:** 5

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	LUST	CHULA VISTA COMMERCE CENTER T06019703301	3513 MAIN ST CHULA VISTA CA 91911	0.19 NE	16
2	LUST	ALL PRO PAINT & BODY HE17H10747	3525 MAIN ST CHULA VISTA CA 91911	0.20 NE	2
3	LUST	ALL PRO PAINT & BODY T0607302258/CASE CLOSED	3525 MAIN ST CHULA VISTA CA 91911	0.20 NE	2
4	LUST	RELIABLE WASTE INC T0607302952/CASE CLOSED	3441 MAIN ST CHULA VISTA CA 91911	0.20 NW	3
5	LUST	RELIABLE WASTE INC HE17H03767	3441 MAIN ST CHULA VISTA CA 91911	0.20 NW	3
6	STATE	RELIABLE WASTE, INC. CAL37650014/NO FURTHER ACTION FO	3441 MAIN ST. CHULA VISTA CA 91911	0.20 NW	3
8	VCP	RELIABLE WASTE, INC. CAL37650014/NO FURTHER ACTION FO	3441 MAIN ST. CHULA VISTA CA 91911	0.20 NW	3
10	SWL	ESPERANZA TIRE CETER SWIS37-TI-0349/TO BE DETERMINED	3487 MAIN ST. CHULA VISTA CA 91911	0.22 NE	5
11	SWL	ESPARZA TIRES FOR LESS SWIS37-TI-0820/ACTIVE	3487 MAIN ST CHULA VISTA CA 91911	0.22 NE	4
13	LUST	CROWER CAMS & EQUIPMENT T0608189297	3333 MAIN ST CHULA VISTA CA 91911	0.26 NW	17
14	LUST	PRO EQUIPMENT RENTALS T0607302593/CASE CLOSED	3610 MAIN ST CHULA VISTA CA 91911	0.28 NE	11
15	LUST	PRO EQUIPMENT RENTALS T0608178849/CASE CLOSED	3610 MAIN ST CHULA VISTA CA 91911	0.28 NE	11
16	LUST	PRO EQUIPMENT RENTALS HE17H04765	3610 MAIN ST CHULA VISTA CA 91911	0.28 NE	11
17	SWL	<b>MACE STREET TRASH TS</b> <b>SWIS37-AA-0926/PLANNED</b>	<b>187 MACE STREET</b> <b>CHULA VISTA CA 91911</b>	<b>0.28 NE</b>	<b>7</b>
18	LUST	<b>SAN DIEGO CATERERS</b> <b>T0608101277/PRELIM. SITE ASSES.</b>	<b>3630 MAIN ST</b> <b>CHULA VISTA CA 91911</b>	<b>0.29 NE</b>	<b>18</b>
19	LUST	<b>SKY TRUCKING CO</b> <b>T0608153461/CASE CLOSED</b>	<b>187 MACE ST</b> <b>CHULA VISTA CA 91911</b>	<b>0.30 NE</b>	<b>19</b>
20	LUST	<b>SOUTH BAY BUS FACILITY</b> <b>HE17H33521</b>	<b>3650 MAIN ST</b> <b>CHULA VISTA CA 91911-</b>	<b>0.30 NE</b>	<b>20</b>
20	LUST	<b>SKY TRUCKING CO</b> <b>HE17H20130</b>	<b>187 MACE ST</b> <b>CHULA VISTA CA 91911</b>	<b>0.31 NE</b>	<b>10</b>
21	SWL	HERNANDEZ TIRES AND RADIATORS SWIS37-TI-0052/ACTIVE	3236 E. MAIN STREET CHULA VISTA CA 91911	0.31 NW	6
23	LUST	CHULA VISTA RECYCLING HE17H00148	128 MACE ST CHULA VISTA CA 91911-	0.32 NE	9
24	LUST	CHULA VISTA RECYCLING T0608104858	128 MACE ST CHULA VISTA CA 91911	0.32 NE	9

***Environmental FirstSearch  
Sites Summary Report***

**TARGET SITE:** 3497 MAIN ST  
CHULA VISTA CA 91911

**JOB:** 06-018SD  
RE-RUN WITH FI MAP SEARCH

**TOTAL:** 31      **GEOCODED:** 31      **NON GEOCODED:** 0      **SELECTED:** 5

<b>Page No.</b>	<b>DB Type</b>	<b>Site Name/ID/Status</b>	<b>Address</b>	<b>Dist/Dir</b>	<b>Map ID</b>
25	LUST	SOUTH BAY BUS FACILITY T0608120918/CASE CLOSED	3650 MAIN ST CHULA VISTA CA 91911	0.32 NE	1
26	LUST	EXPRESS GAS #14 HE17H03084	130 BEYER WY CHULA VISTA CA 91911	0.34 NW	12
27	LUST	EXPRESS GAS #14 T0607300865/CASE CLOSED	130 BEYER WY CHULA VISTA CA 91911	0.34 NW	12
28	LUST	CHULA VISTA MOBIL HE17H39131	3733 MAIN ST CHULA VISTA CA 91911	0.35 NE	13
29	LUST	CHULA VISTA MOBIL T0608181371/CASE CLOSED	3733 MAIN ST CHULA VISTA CA 91911	0.35 NE	13
30	LUST	ALLEN GAS T0608108482/CASE CLOSED	3205 MAIN ST CHULA VISTA CA 91911	0.38 NW	14
31	LUST	ALLEN GAS HE17H05728	3205 MAIN ST CHULA VISTA CA 91911-	0.40 NW	8
32	LUST	ALLEN GAS T0607301554/CASE CLOSED	3205 MAIN ST CHULA VISTA CA 91911	0.40 NW	8
33	LUST	ARCO #1925 PSI#607 HE17H20134	3190 MAIN ST CHULA VISTA CA 91911	0.43 NW	15
34	LUST	ARCO #1925 PSI#607 T0607300734/CASE CLOSED	3190 MAIN ST CHULA VISTA CA 91911	0.43 NW	15







































































## Environmental FirstSearch Database Descriptions

**NPL:** *EPA* NATIONAL PRIORITY LIST - Database of confirmed and proposed Superfund sites.

**NPL Delisted:** *EPA* NATIONAL PRIORITY LIST Subset - Database of delisted Superfund sites.

**CERCLIS:** *EPA* COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM - Database of current and potential Superfund sites currently or previously under investigation.

**NFRAP:** *EPA* COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

**RCRA COR ACT:** *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of RCRA facilities with reported violations and subject to corrective actions.

**RCRA TSD:** *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of facilities licensed to store, treat and dispose of hazardous waste materials.

**RCRA GEN:** *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of facilities that generate or transport hazardous waste or meet other RCRA requirements.

LGN - Large Quantity Generators

SGN - Small Quantity Generators

VGN – Conditionally Exempt Generator.

Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

**RCRA NLR:** *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of facilities not currently classified by the EPA but are still included in the RCRIS database. Reasons for non classification:

Failure to report in a timely matter.

No longer in business.

No longer in business at the listed address.

No longer generating hazardous waste materials in quantities which require reporting.

**Federal IC / EC:** *EPA* BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs.

FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated.

**ERNS:** *EPA/NRC* EMERGENCY RESPONSE NOTIFICATION SYSTEM - Database of emergency response actions. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

**Tribal Lands:** *DOI/BIA* INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.

**State/Tribal Sites:** *CA EPA* SMBRPD / CAL SITES- The California Department of Toxic Substances Control (DTSC) has developed an electronic database system with information about sites that are known to be contaminated with hazardous substances as well as information on uncharacterized properties where further

studies may reveal problems. The Site Mitigation and Brownfields Reuse Program Database (SMBRPD), also known as CalSites, is used primarily by DTSC's staff as an informational tool to evaluate and track activities at properties that may have been affected by the release of hazardous substances.

The SMBRPD displays information in six categories. The categories are:

1. CalSites Properties (CS)
2. School Property Evaluation Program Properties (SCH)
3. Voluntary Cleanup Program Properties (VCP)
4. Unconfirmed Properties Needing Further Evaluation (RFE)
5. Unconfirmed Properties Referred to Another Local or State Agency (REF)
6. Properties where a No Further Action Determination has been made (NFA)

Please Note: FirstSearch Reports list the above sites as DB Type (OTHER).

Each Category contains information on properties based upon the type of work taking place at the site. For example, the CalSites database is now one of the six categories within SMPBRD and contains only confirmed sites considered as posing the greatest threat to the public and/or the potential public school sites will be found within the School Property Evaluation Program, and those properties undergoing voluntary investigation and/or cleanup are in the Voluntary Cleanup Program.

CORTESE LIST-Pursuant to Government Code Section 65962.5, the Hazardous Waste and Substances Sites List has been compiled by Cal/EPA, Hazardous Materials Data Management Program. The CAL EPA Dept. of Toxic Substances Control compiles information from subsets of the following databases to make up the CORTESE list:

1. The Dept. of Toxic Substances Control; contaminated or potentially contaminated hazardous waste sites listed in the CAL Sites database. Formerly known as ASPIS are included (CAL SITES formerly known as ASPIS).
2. The California State Water Resources Control Board; listing of Leaking Underground Storage Tanks are included (LTANK)
3. The California Integrated Waste Management Board; Sanitary Landfills which have evidence of groundwater contamination or known migration of hazardous materials (formerly WB-LF, now AB 3750).

Note: Track Info Services collects each of the above data sets individually and lists them separately in the following First Search categories in order to provide more current and comprehensive information: CALSITES: SPL, LTANK: LUST, WB-LF: SWL

**State Spills 90:** *CA EPA* SLIC REGIONS 1 - 9- The California Regional Water Quality Control Boards maintain report of sites that have records of spills, leaks, investigation, and cleanups.

**State/Tribal SWL:** *CA IWMB/SWRCB/COUNTY* SWIS SOLID WASTE INFORMATION SYSTEM-The California Integrated Waste Management Board maintains a database on solid waste facilities, operations, and disposal sites throughout the state of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites. For more information on individual sites call the number listed in the source field..

Please Note: This database contains poor site location information for many sites in the First Search reports; therefore, it may not be possible to locate or plot some sites in First Search reports.

WMUDS-The State Water Resources Control Board maintained the Waste Management Unit Database System (WMUDS). It is no longer updated. It tracked management units for several regulatory programs related to waste management and its potential impact on groundwater. Two of these programs (SWAT & TPCA) are no longer on-going regulatory programs as described below. Chapter 15 (SC15) is still an on-going regulatory program and information is updated periodically but not to the WMUDS database. The WMUDS System contains information from the following agency databases: Facility, Waste Management Unit (WMU), Waste Discharger System (WDS), SWAT, Chapter 15, TPCA, RCRA, Inspections, Violations, and Enforcement's.

Note: This database contains poor site location information for many sites in the First Search reports; therefore, it may not be possible to locate or plot some sites in First Search reports.

ORANGE COUNTY LANDFILLS LIST- A list maintained by the Orange County Health Department.

**State/Tribal LUST:** *CA SWRCB/COUNTY* LUSTIS- The State Water Resources Control Board maintains a database of sites with confirmed or unconfirmed leaking underground storage tanks. Information for this database is collected from the states regional boards quarterly and integrated with this database.

SAN DIEGO COUNTY LEAKING TANKS- The San Diego County Department of Environmental Health maintains a database of sites with confirmed or unconfirmed leaking underground storage tanks within its HE17/58 database. For more information on a specific file call the HazMat Duty Specialist at phone number listed in the source information field.

**State/Tribal UST/AST:** *CA EPA/COUNTY/CITY* ABOVEGROUND STORAGE TANKS LISTING-The

Above Ground Petroleum Storage Act became State Law effective January 1, 1990. In general, the law requires owners or operators of AST's with petroleum products to file a storage statement and pay a fee by July 1, 1990 and every two years thereafter, take specific action to prevent spills, and in certain instances implement a groundwater monitoring program. This law does not apply to that portion of a tank facility associated with the production oil and regulated by the State Division of Oil and Gas of the Dept. of Conservation.

**SWEEPS / FIDS STATE REGISTERED UNDERGROUND STORAGE TANKS-** Until 1994 the State Water Resources Control Board maintained a database of registered underground storage tanks statewide referred to as the SWEEPS System. The SWEEPS UST information was integrated with the CAL EPA's Facility Index System database (FIDS) which is a master index of information from numerous California agency environmental databases. That was last updated in 1994. Track Info Services included the UST information from the FIDS database in its First Search reports for historical purposes to help its clients identify where tanks may possibly have existed. For more information on specific sites from individual paper files archived at the State Water Resources Control Board call the number listed with the source information.

**INDIAN LANDS UNDERGROUND STORAGE TANKS LIST-** A listing of underground storage tanks currently on Indian Lands under federal jurisdiction. California Indian Land USTS are administered by US EPA Region 9.

**CUPA DATABASES & SOURCES-** Definition of a CUPA: A Certified Unified Program Agency (CUPA) is a local agency that has been certified by the CAL EPA to implement six state environmental programs within the local agency's jurisdiction. These can be a county, city, or JPA (Joint Powers Authority). This program was established under the amendments to the California Health and Safety Code made by SB 1082 in 1994.

A Participating Agency (PA) is a local agency that has been designated by the local CUPA to administer one or more Unified Programs within their jurisdiction on behalf of the CUPA. A Designated Agency (DA) is an agency that has not been certified by the CUPA but is the responsible local agency that would implement the six unified programs until they are certified.

Please Note: Track Info Services, LLC collects and maintains information regarding Underground Storage Tanks from majority of the CUPAS and Participating Agencies in the State of California. These agencies typically do not maintain nor release such information on a uniform or consistent schedule; therefore, currency of the data may vary. Please look at the details on a specific site with a UST record in the First Search Report to determine the actual currency date of the record as provided by the relevant agency. Numerous efforts are made on a regular basis to obtain updated records.

**State/Tribal IC: CA EPA DEED-RESTRICTED SITES LISTING-** The California EPA's Department of Toxic Substances Control Board maintains a list of deed-restricted sites, properties where the DTSC has placed limits or requirements on the future use of the property due to varying levels of cleanup possible, practical or necessary at the site.

**State/Tribal VCP: CA EPA SMBRPD / CAL SITES-** The California Department of Toxic Substances Control (DTSC) has developed an electronic database system with information about sites that are known to be contaminated with hazardous substances as well as information on uncharacterized properties where further studies may reveal problems. The Site Mitigation and Brownfields Reuse Program Database (SMBRPD), also known as CalSites, is used primarily by DTSC's staff as an informational tool to evaluate and track activities at properties that may have been affected by the release of hazardous substances.

The SMBRPD displays information in six categories. The categories are:

1. CalSites Properties (CS)
2. School Property Evaluation Program Properties (SCH)
3. Voluntary Cleanup Program Properties (VCP)
4. Unconfirmed Properties Needing Further Evaluation (RFE)
5. Unconfirmed Properties Referred to Another Local or State Agency (REF)
6. Properties where a No Further Action Determination has been made (NFA)

Please Note: FirstSearch Reports list the above sites as DB Type VC. Each Category contains information on properties based upon the type of work taking place at the site. The VC category contains only those properties undergoing voluntary investigation and/or cleanup and which are listed in the Voluntary Cleanup Program.

**RADON: NTIS NATIONAL RADON DATABASE -** EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

**State Permits: CA COUNTY SAN DIEGO COUNTY HE17 PERMITS-** The HE17/58 database tracks establishments issued permits and the status of their permits in relation to compliance with federal, state, and local regulations that the County oversees. It tracks if a site is a hazardous waste generator, TSD, gas station, has underground tanks, violations, or unauthorized releases. For more information on a specific file call the HazMat Duty Specialist at the phone number listed in the source information field.

SAN BERNARDINO COUNTY HAZARDOUS MATERIALS PERMITS- Handlers and Generators Permit Information Maintained by the Hazardous Materials Division.

**State Other: CA EPA/COUNTY SMBRPD / CAL SITES-** The California Department of Toxic Substances Control (DTSC) has developed an electronic database system with information about sites that are known to be contaminated with hazardous substances as well as information on uncharacterized properties where further studies may reveal problems. The Site Mitigation and Brownfields Reuse Program Database (SMBRPD), also known as CalSites, is used primarily by DTSC's staff as an informational tool to evaluate and track activities at properties that may have been affected by the release of hazardous substances.

The SMBRPD displays information in six categories. The categories are:

1. CalSites Properties (CS)
2. School Property Evaluation Program Properties (SCH)
3. Voluntary Cleanup Program Properties (VCP)
4. Unconfirmed Properties Needing Further Evaluation (RFE)
5. Unconfirmed Properties Referred to Another Local or State Agency (REF)
6. Properties where a No Further Action Determination has been made (NFA)

Please Note: FirstSearch Reports list the above sites as DB Type (OTHER).

Each Category contains information on properties based upon the type of work taking place at the site. For example, the CalSites database is now one of the six categories within SMPBRD and contains only confirmed sites considered as posing the greatest threat to the public and/or the potential public school sites will be found within the School Property Evaluation Program, and those properties undergoing voluntary investigation and/or cleanup are in the Voluntary Cleanup Program.

LA COUNTY SITE MITIGATION COMPLAINT CONTROL LOG- The County of Los Angeles Public Health Investigation Compliant Control Log.

ORANGE COUNTY INDUSTRIAL SITE CLEANUPS- List maintained by the Orange County Environmental Health Agency.

RIVERSIDE COUNTY WASTE GENERATORS-A list of facilities in Riverside County which generate hazardous waste.

SACRAMENTO COUNTY MASTER HAZMAT LIST-Master list of facilities within Sacramento County with potentially hazardous materials.

SACRAMENTO COUNTY TOXIC SITE CLEANUPS-A list of sites where unauthorized releases of potentially hazardous materials have occurred.

**FI Map Coverage: PROPRIETARY FIRE INSURANCE MAP AVAILABILITY -** Database of historical fire insurance map availability.

## Environmental FirstSearch Database Sources

**NPL:** *EPA* Environmental Protection Agency

*Updated quarterly*

**NPL Delisted:** *EPA* Environmental Protection Agency

*Updated quarterly*

**CERCLIS:** *EPA* Environmental Protection Agency

*Updated quarterly*

**NFRAP:** *EPA* Environmental Protection Agency.

*Updated quarterly*

**RCRA COR ACT:** *EPA* Environmental Protection Agency.

*Updated quarterly*

**RCRA TSD:** *EPA* Environmental Protection Agency.

*Updated quarterly*

**RCRA GEN:** *EPA* Environmental Protection Agency.

*Updated quarterly*

**RCRA NLR:** *EPA* Environmental Protection Agency

*Updated quarterly*

**Federal IC / EC:** *EPA* Environmental Protection Agency

*Updated quarterly*

**ERNS:** *EPA/NRC* Environmental Protection Agency

*Updated semi-annually*

**Tribal Lands:** *DOI/BIA* United States Department of the Interior

*Updated annually*

**State/Tribal Sites: CA EPA** The CAL EPA, Depart. Of Toxic Substances Control  
Phone: (916) 323-3400

*Updated quarterly/when available*

**State Spills 90: CA EPA** The California State Water Resources Control Board

*Updated when available*

**State/Tribal SWL: CA IWMB/SWRCB/COUNTY** The California Integrated Waste Management Board  
Phone:(916) 255-2331  
The State Water Resources Control Board  
Phone:(916) 227-4365  
Orange County Health Department

*Updated quarterly/when available*

**State/Tribal LUST: CA SWRCB/COUNTY** The California State Water Resources Control Board  
Phone:(916) 227-4416  
San Diego County Department of Environmental Health

*Updated quarterly/when available*

**State/Tribal UST/AST: CA EPA/COUNTY/CITY** The State Water Resources Control Board  
Phone:(916) 227-4364  
CAL EPA Department of Toxic Substances Control  
Phone:(916)227-4404  
US EPA Region 9 Underground Storage Tank Program  
Phone: (415) 972-3372

ALAMEDA COUNTY CUPAS:

- \* County of Alameda Department of Environmental Health
- \* Cities of Berkeley, Fremont, Hayward, Livermore / Pleasanton, Newark, Oakland, San Leandro, Union

ALPINE COUNTY CUPA:

- \* Health Department (Only updated by agency sporadically)

AMADOR COUNTY CUPA:

- \* County of Amador Environmental Health Department

BUTTE COUNTY CUPA

- \* County of Butte Environmental Health Division (Only updated by agency biannually)

CALAVERAS COUNTY CUPA:

- \* County of Calaveras Environmental Health Department

COLUSA COUNTY CUPA:

- \* Environmental Health Dept.

CONTRA COSTA COUNTY CUPA:

- \* Hazardous Materials Program

DEL NORTE COUNTY CUPA:

- \* Department of Health and Social Services

EL DORADO COUNTY CUPAS:

- \* County of El Dorado Environmental Health - Solid Waste Div (Only updated by agency annually)
- \* County of El Dorado EMD Tahoe Division (Only updated by agency annually)

FRESNO COUNTY CUPA:

- \* Haz. Mat and Solid Waste Programs

GLENN COUNTY CUPA:

- \* Air Pollution Control District

HUMBOLDT COUNTY CUPA:

- \* Environmental Health Division

IMPERIAL COUNTY CUPA:

- \* Department of Planning and Building

INYO COUNTY CUPA:

- \* Environmental Health Department

KERN COUNTY CUPA:

- \* County of Kern Environmental Health Department

- \* City of Bakersfield Fire Department

KINGS COUNTY CUPA:

- \* Environmental Health Services

LAKE COUNTY CUPA:

- \* Division of Environmental Health

LASSEN COUNTY CUPA:

- \* Department of Agriculture

LOS ANGELES COUNTY CUPAS:

- \* County of Los Angeles Fire Department CUPA Data as maintained by the Los Angeles County Department of Public Works

- \* County of Los Angeles Environmental Programs Division

- \* Cities of Burbank, El Segundo, Glendale, Long Beach/Signal Hill, Los Angeles, Pasadena, Santa Fe Springs, Santa Monica, Torrance, Vernon

MADERA COUNTY CUPA:

- \* Environmental Health Department

MARIN COUNTY CUPA:

- \* County of Marin Office of Waste Management

- \* City of San Rafael Fire Department

MARIPOSA COUNTY CUPA:

- \* Health Department

MENDOCINO COUNTY CUPA:

- \* Environmental Health Department

MERCED COUNTY CUPA:

- \* Division of Environmental Health

MODOC COUNTY CUPA:

- \* Department of Agriculture

MONO COUNTY CUPA:

- \* Health Department

MONTEREY COUNTY CUPA:

- \* Environmental Health Division

NAPA COUNTY CUPA:

- \* Hazardous Materials Section

NEVADA COUNTY CUPA:

- \* Environmental Health Department

ORANGE COUNTY CUPAS:

- \* County of Orange Environmental Health Department

- \* Cities of Anaheim, Fullerton, Orange, Santa Ana

- \* County of Orange Environmental Health Department

PLACER COUNTY CUPAS:

- \* County of Placer Division of Environmental Health Field Office

- \* Tahoe City

- \* City of Roseville Roseville Fire Department

PLUMAS COUNTY CUPA:

- \* Environmental Health Department

RIVERSIDE COUNTY CUPA:

- \* Environmental Health Department

SACRAMENTO COUNTY CUPA:

- \* County Environmental Mgmt Dept, Haz. Mat. Div.

SAN BENITO COUNTY CUPA:

- \* City of Hollister Environmental Service Department

SAN BERNARDINO COUNTY CUPAS:

- \* County of San Bernardino Fire Department, Haz. Mat. Div.

- \* City of Hesperia Hesperia Fire Prevention Department

- \* City of Victorville Victorville Fire Department

SAN DIEGO COUNTY CUPA:

- \* The San Diego County Dept. of Environmental Health HE 17/58

SAN FRANCISCO COUNTY CUPA:

- \* Department of Public Health
- SAN JOAQUIN COUNTY CUPA:
- \* Environmental Health Division
- SAN LUIS OBISPO COUNTY CUPAS:
- \* County of San Luis Obispo Environmental Health Division
- \* City of San Luis Obispo City Fire Department
- SAN MATEO COUNTY CUPA:
- \* Environmental Health Department
- SANTA BARBARA COUNTY CUPA:
- \* County Fire Dept Protective Services Division
- SANTA CLARA COUNTY CUPAS:
- \* County of Santa Clara Hazardous Materials Compliance Division
- \* Santa Clara County Central Fire Protection District (Covers Campbell, Cupertino, Los Gatos, & Morgan Hill)
- \* Cities of Gilroy, Milpitas, Mountain View, Palo Alto, San Jose Fire, Santa Clara, Sunnyvale
- SANTA CRUZ COUNTY CUPA:
- \* Environmental Health Department
- SHASTA COUNTY CUPA:
- \* Environmental Health Department
- SIERRA COUNTY CUPA:
- \* Health Department
- SISKIYOU COUNTY CUPA:
- \* Environmental Health Department
- SONOMA COUNTY CUPAS:
- \* County of Sonoma Department Of Environmental Health
- \* Cities of Healdsburg / Sebastopol, Petaluma, Santa Rosa
- STANISLAUS COUNTY CUPA:
- \* Department of Environmental Resources Haz. Mat. Division
- SUTTER COUNTY CUPA:
- \* Department of Agriculture
- TEHAMA COUNTY CUPA:
- \* Department of Environmental Health
- TRINITY COUNTY CUPA:
- \* Department of Health
- TULARE COUNTY CUPA:
- \* Environmental Health Department
- TUOLUMNE COUNTY CUPA:
- \* Environmental Health
- VENTURA COUNTY CUPAS:
- \* County of Ventura Environmental Health Division
- \* Cities of Oxnard, Ventura
- YOLO COUNTY CUPA:
- \* Environmental Health Department
- YUBA COUNTY CUPA:

*Updated quarterly/annually/when available*

**State/Tribal IC: CA EPA** The California EPA Department of Toxic Substances Control.

*Updated Updated quarterly/annually/when available*

**State/Tribal VCP: CA EPA** The California EPA Department of Toxic Substances Control.

*Updated Updated quarterly/annually/when available*

**RADON: NTIS** Environmental Protection Agency, National Technical Information Services

*Updated periodically*

**State Permits: CA COUNTY** The San Diego County Depart. Of Environmental Health  
Phone:(619) 338-2211  
San Bernardino County Fire Department

*Updated quarterly/when available*

**State Other: CA EPA/COUNTY** The CAL EPA, Depart. Of Toxic Substances Control  
Phone: (916) 323-3400  
The Los Angeles County Hazardous Materials Division  
Phone: (323) 890-7806  
Orange County Environmental Health Agency  
Phone: (714) 834-3536  
Riverside County Department of Environmental Health, Hazardous Materials Management Division  
Phone:(951) 358-5055  
Sacramento County Environmental Management Department

*Updated quarterly/when available*

**FI Map Coverage: PROPRIETARY** Library of Congress  
Catalogue of Maps Published by Sanborn Mapping and Geographic Information Service in February 1988®  
ProQuest  
Other internally produced datasets

*Updated quarterly*

***Environmental FirstSearch***  
***Street Name Report for Streets within .25 Mile(s) of Target Property***

**TARGET SITE:** 3497 MAIN ST  
CHULA VISTA CA 91911

**JOB:** 06-018SD  
RE-RUN WITH FI MAP SEARCH

<b>Street Name</b>	<b>Dist/Dir</b>	<b>Street Name</b>	<b>Dist/Dir</b>
Albany Ave	0.20 NE		
Alvoca St	0.10 NW		
Ancurza Way	0.16 NW		
Banner Ave	0.22 NW		
Beyer Way	0.24 SW		
Britton Ave	0.19 NE		
Del Monte Ave	0.23 NW		
Main St	0.20 N-		
Reed Ct	0.16 NE		
Teena Dr	0.18 NW		

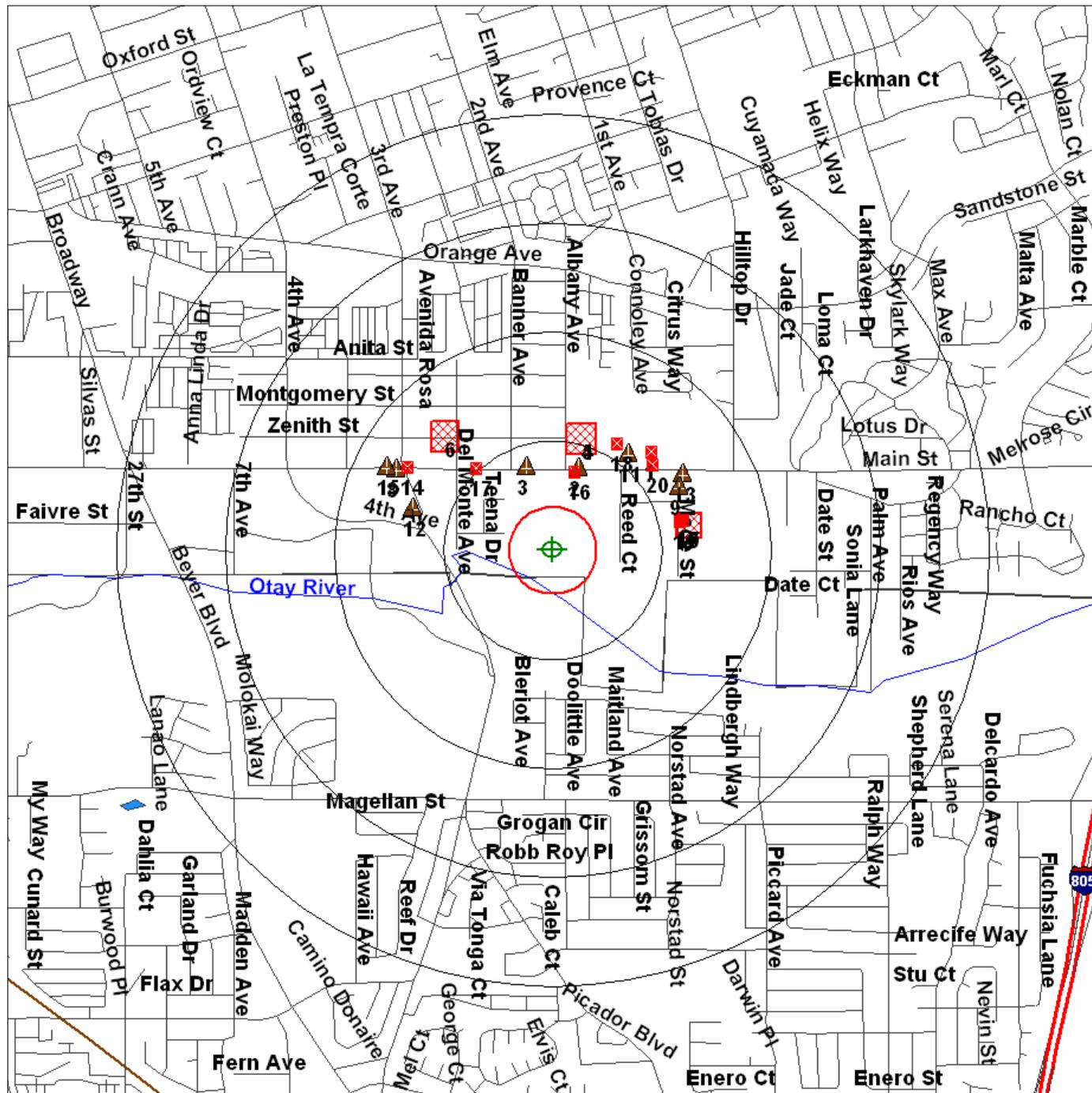


# Environmental FirstSearch

1 Mile Radius  
Single Map:

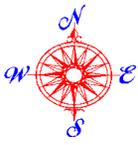


## 3497 MAIN ST, CHULA VISTA CA 91911



Source: U.S. Census TIGER Files

- Target Site (Latitude: 32.592067 Longitude: -117.058651) .....
  - Identified Site, Multiple Sites, Receptor .....
  - NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste .....
  - Triballand .....
  - Railroads .....
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

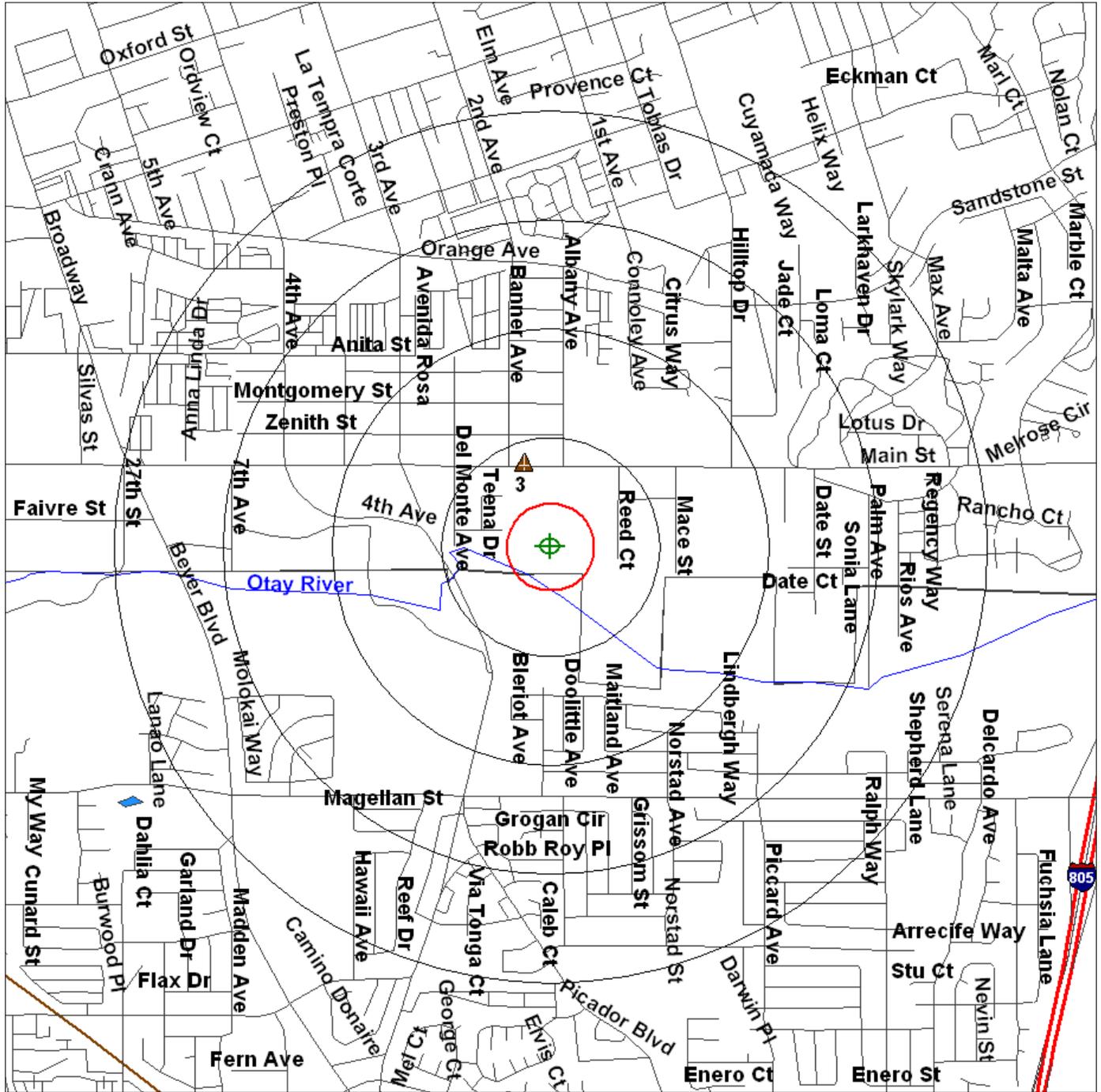


# Environmental FirstSearch

1 Mile Radius  
AAI: NPL, RCACOR, STATE



## 3497 MAIN ST, CHULA VISTA CA 91911



Source: U.S. Census TIGER Files

- Target Site (Latitude: 32.592067 Longitude: -117.058651)
  - Identified Site, Multiple Sites, Receptor
  - NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
  - Triballand
  - Railroads
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

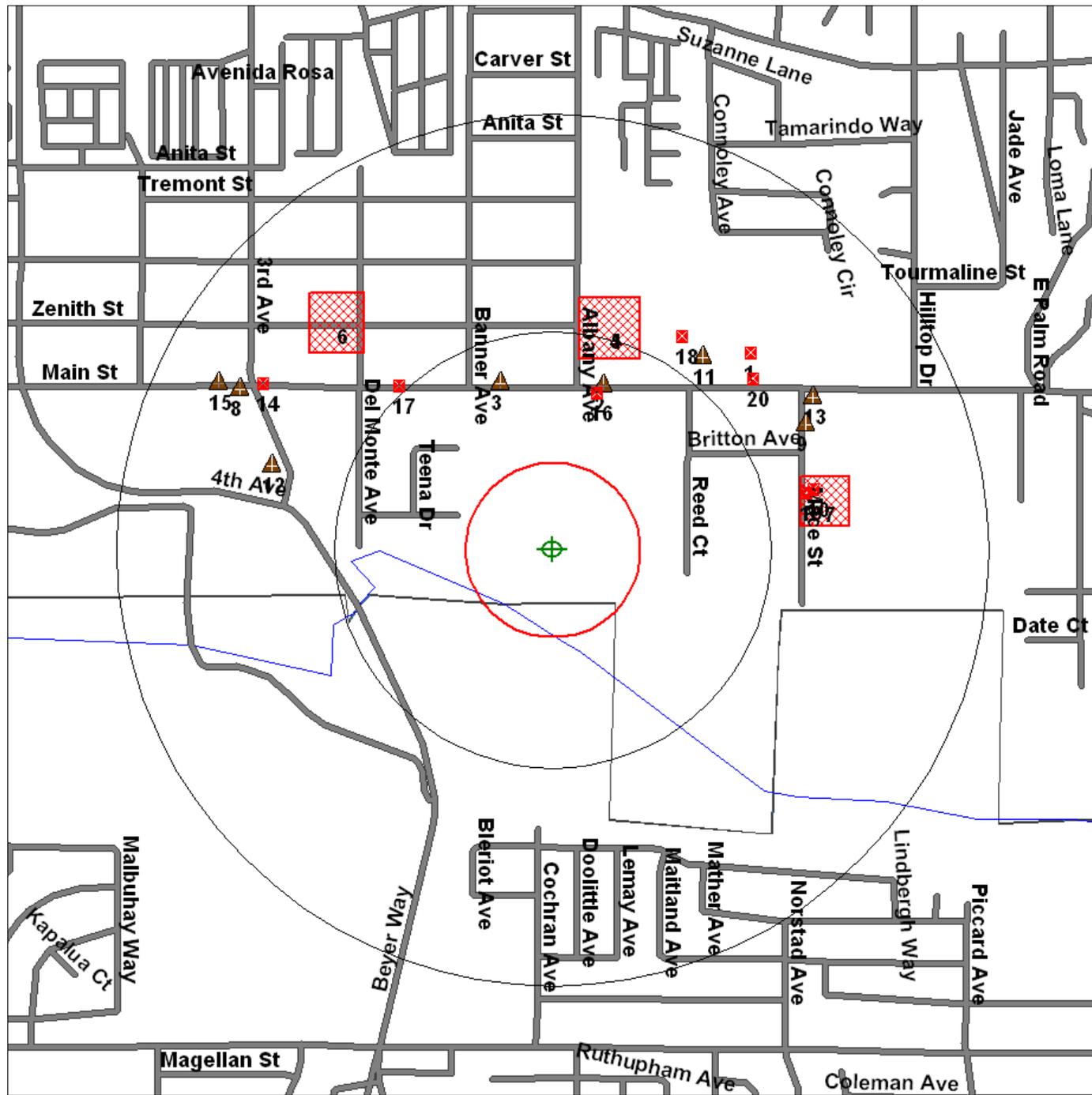


# Environmental FirstSearch

.5 Mile Radius  
AAI: Multiple Databases



## 3497 MAIN ST, CHULA VISTA CA 91911



Source: U.S. Census TIGER Files

- Target Site (Latitude: 32.592067 Longitude: -117.058651) 
- Identified Site, Multiple Sites, Receptor   
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste 
- Triballand 
- Railroads 
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

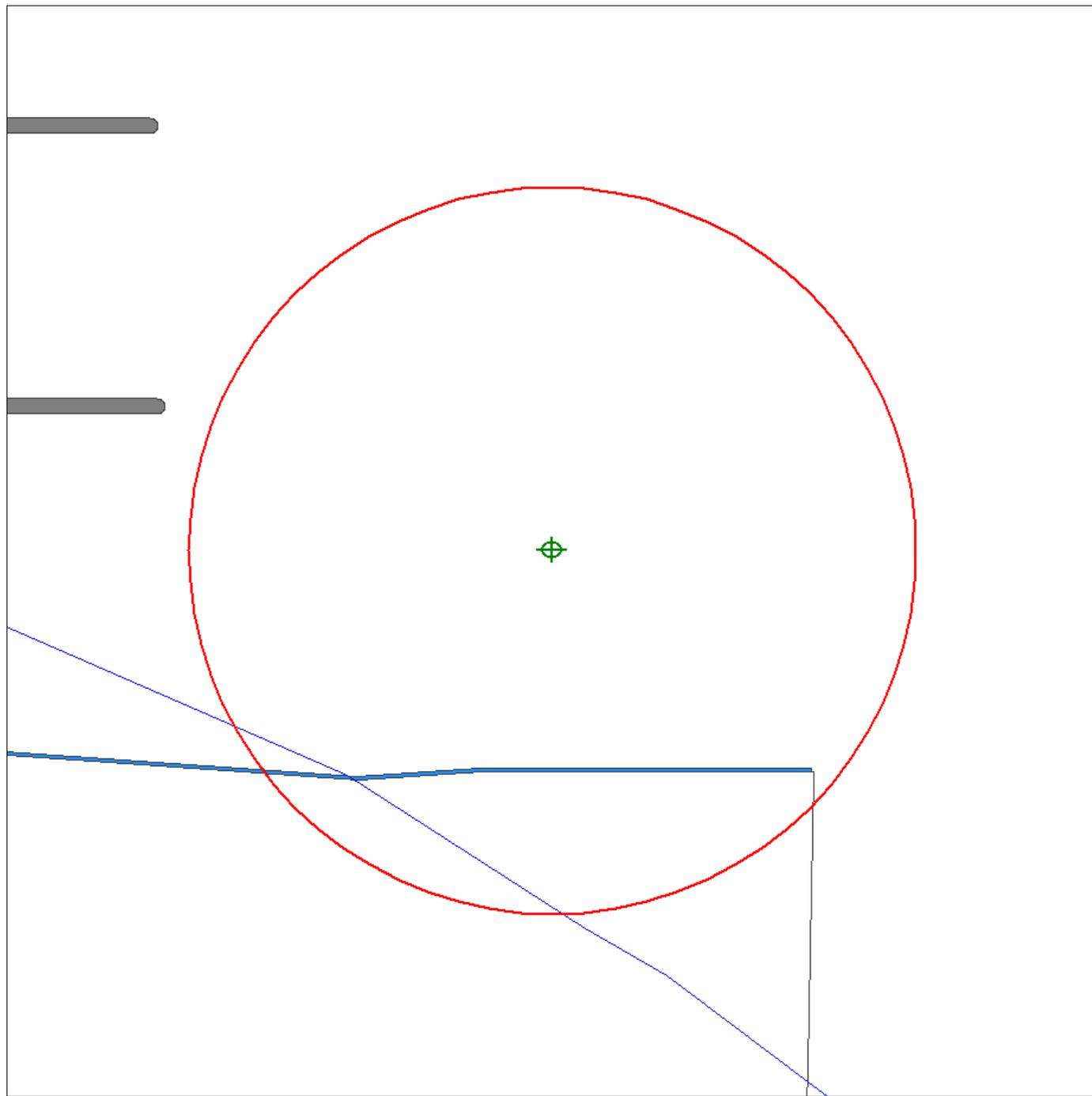


# Environmental FirstSearch

.12 Mile Radius  
AAI: Multiple Databases



**3497 MAIN ST, CHULA VISTA CA 91911**



Source: U.S. Census TIGER Files

- Target Site (Latitude: 32.592067 Longitude: -117.058651) ..... 
  - Identified Site, Multiple Sites, Receptor .....   
  - NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste ..... 
  - Triballand ..... 
  - Railroads ..... 
- Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

**APPENDIX E**  
**SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH**

---



# County of San Diego

GARY W ERBECK  
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION  
P O BOX 129261, SAN DIEGO, CA 92112-9261  
(619) 338-2222 FAX (619) 338-2377  
1-800-253-9933

May 5, 2006

Ms. Donelle Griffin  
Environmental Consultant  
7911 Blue Jay Place  
San Diego, CA 92123-3311

Dear Ms. Griffin

**SUBJECT:** NOTIFICATION OF FACILITY INSPECTION- MMC CHULA VISTA, LLC, 3497 MAIN STREET, CHULA VISTA, CA 91911, PERMIT NUMBER 139211, DURING THE WEEK OF MAY 8, 2006.

The Hazardous Materials Division (HMD) inspects businesses or facilities, in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6 5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR), and the San Diego County Code (SDCC). This letter is to notify you that the HMD will be conducting a routine compliance and change of ownership inspection of your facility. The inspection will focus on these general areas:

- Site Inspection: An inspection of the facility by a Hazardous Materials Specialist (including buildings, equipment, storage areas, work areas, etc.).
- Observe hazardous materials and waste storage, handling, container labeling; and waste disposal procedures.
- Review spill control procedures and spill reporting.
- Review and evaluate hazardous materials that are stored or handled on-site.
- Review the Hazardous Materials Business Plan: (Site Map, Emergency Response Procedures, and Employee Training Plan).
- Review the hazardous materials training program and documentation (written records).
- Review hazardous waste disposal receipts and manifests.

Additionally your facility is subject to the California Accidental Release Prevention (CalARP) Program regulations under Title 19, Division 2, Chap 4 5, and has submitted a Risk Management Plan (RMP) for a Regulated Substance (anhydrous ammonia) in a Covered Process. For this portion of the inspection the following records will be reviewed:

- RMP Public Document, and related Technical Documents
- RMP Update Documentation: within 5 years of initial submission, change of owner/operator, updated registration information, Program level change, (if any).
- Revised/Updated Offsite Consequence Analysis (OCA) - every 5 years, or if significant process modification.
- Prevention Program 2 Documents: Safety Information, hazard review, operating procedures, training, maintenance, compliance audits, and incident investigations.
- Emergency Response Program.
- Accidental Release Records (if any).

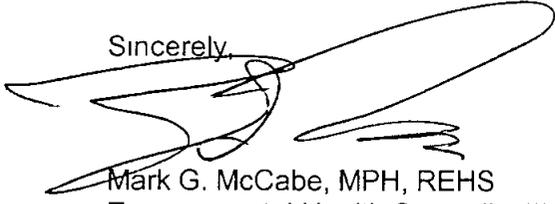
Ms. Griffin

- 2 -

May 8, 2006

This notification is intended to better prepare you for the inspection criteria pertaining to the CalARP Program. I would like to schedule the inspection with you for the week of May 8, 2006. The HMD also recommends you review your RMP public document for other documents referenced (Operational Procedures, Maintenance Records, Training Programs, etc.) which will be reviewed during the inspection. Depending on the size and complexity of your facility the inspection is expected to take 1-4 days. If you have any questions please call me at (619) 338-2453. Thank you for your cooperation

Sincerely,



Mark G. McCabe, MPH, REHS  
Environmental Health Specialist III  
Hazardous Materials Division

cc. John Kolb, Supervising Environmental Health Specialist  
Martin Quinn, Principal, Chief Operating Officer  
Rick Bryant, Chula Vista Fire Department  
HMD File #: 101955

CERTIFIED MAIL/RRR

**Donelle Griffin**  
**Environmental Consulting**  
**7911 Blue Jay Place**  
**San Diego, CA 92123-3311**

206738  
Please File

RECEIVED  
2006 JUL 12 AM 10 23

D. E. H.  
MAILROOM

July 10, 2006

Mr. Mark McCabe  
County of San Diego  
Department of Environmental Health  
Hazardous Materials Division  
P.O. Box 129261  
San Diego, CA 92112-9261

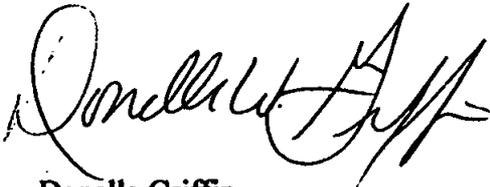
**SUBJECT: UPDATED RISK MANAGEMENT PLAN (RMP) – PUBLIC NOTIFICATION  
ESTABLISHMENT #206738, MMC CHULA VISTA, LLC AND ESTABLISHMENT  
#206739, MMC ESCONDIDO, LLC**

Dear Mr. McCabe;

On the behalf of MMC Energy North America, LLC, I am submitting a copy of the **Certificate of Publication** for the above mentioned sites. This notice was published in San Diego Transcript on July 6<sup>th</sup>, 2006.

Please feel free to contact me if you have any questions or concerns.

Sincerely,



Donelle Griffin  
Environmental Consulting  
858-354-4995

Cc: Martin V. Quinn, MMC Energy North America, LLC  
Steve Cox, MMC Escondido, LLC  
Mark Wellard, MMC Chula Vista, LLC

# CERTIFICATE OF PUBLICATION

Donelle Griffin  
7911 Blue Jay Place  
SAN DIEGO CA 92123

IN THE MATTER OF

CASE NO.

MMNorth American

I, Eboni N. Hines, am a citizen of the United States and a resident of the county aforesaid; I am over the age of eighteen years, and not party to or interested in the above entitled matter. I am the principal clerk of the San Diego Transcript, a newspaper of general circulation, printed and published daily, except on Saturdays and Sundays, in the City of San Diego, County of San Diego and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of San Diego, State of California, under the date of January 23, 1909, Decree No. 14894; and the

COUNTY OF SAN DIEGO  
DEPARTMENT OF ENVIRONMENTAL  
HEALTH NOTICE OF SUBMISSION OF  
A RISK MANAGEMENT PLAN (RMP)  
NOTICE IS HEREBY GIVEN that in  
accordance with Section 2745.2 of  
Division 2, Chapter 4.6, in Title 19 of the  
California Code of Regulations, the  
County of San Diego, Department of  
Environmental Health, Hazardous  
Materials Division (HMD), has received  
an updated certified Risk Management  
Plan (RMP) from the following sites:  
MMC Chula Vista, LLC  
At:  
3497 Main Street  
Chula Vista, CA 91911  
and  
MMC Escondido, LLC  
At:  
1868 Don Lee Place  
Escondido, CA 92029  
HMD has initiated the process for  
government and public review.  
Interested parties may be added to a  
notification mailing list by submitting a  
written request to the Risk Management  
Plan Coordinator, County of San Diego,  
Hazardous Materials Division, P.O. Box  
129261, San Diego, CA 92112-9261.  
Pub. July 6-00009195

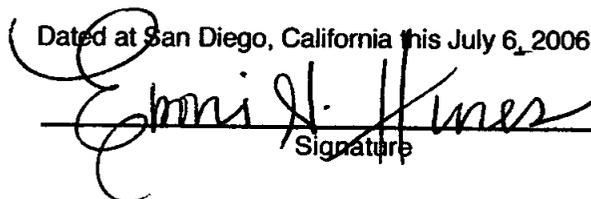
## Health Notice

is a true and correct copy of which the annexed is a printed copy and was published in said newspaper on the following date(s), to wit:

July 6

I certify under penalty of perjury that the forgoing is true and correct.

Dated at San Diego, California this July 6, 2006

  
\_\_\_\_\_  
Signature

Please File  
2067388  
206738



# County of San Diego

GARY W. ERBECK  
DIRECTOR

DAN DELAURENTIS  
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION  
P.O. BOX 129261, SAN DIEGO, CA 92112-9261  
(619) 338-2222 FAX (619) 338-2377  
1-800-253-9933

June 20, 2006

Mr. Martin V. Quinn  
Principal, CEO  
MMC Chula Vista, LLC  
26 Broadway, Suite 907  
New York, NY 10004

Dear Mr. Quinn:

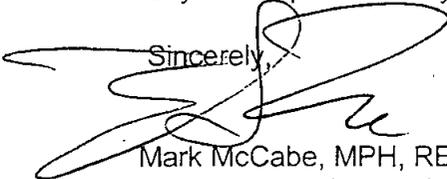
**SUBJECT: UPDATED RISK MANAGEMENT PLAN (RMP)-REQUEST FOR PUBLIC NOTIFICATION: ESTABLISHMENT #206738, MMC CHULA VISTA, LLC**

This letter is to notify you that the San Diego County Hazardous Materials Division (HMD) has received an updated RMP for the management of aqua ammonia at the MMC Chula Vista, LLC Facility, 3497 Main Street, Chula Vista, CA 91911. Pursuant to Section 25535, Article 2, Chapter 6.95 of the California Health & Safety Code, HMD will initiate the process for governmental and public review.

In an effort to reduce regulatory cost and to increase efficiency in the RMP review process, HMD requests that the owner/operator of the stationary source arrange for the publication of the required public notifications. Within 5 days, the MMC Chula Vista, LLC, permit #206738, is requested to publish a notice in a local newspaper of general circulation indicating that their RMP update has been submitted to HMD for completeness and technical review. This notice must run for one day and a copy of the Certificate of Publication must be provided to HMD. Attached is a draft copy of how the notice should be published.

HMD is committed to the completion of the RMP review in an expeditious manner. Thank you for your cooperation. If you have any questions please call me at (619) 338-2453.

Sincerely,

  
Mark McCabe, MPH, REHS,  
Environmental Health Specialist III

Ec: John Kolb, Supervising Environmental Health Specialist

cc: Donelle Griffin, Environmental Consultant  
Rick Brand, Chula Vista Fire Department  
Joy Williams, Environmental Health Coalition  
File: 206738

CERTIFIED MAIL/RRR

**COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL  
HEALTH NOTICE OF SUBMISSION OF A RISK MANAGEMENT  
PLAN (RMP)**

NOTICE IS HEREBY GIVEN that in accordance with Section 2745.2 of Division 2, Chapter 4.5, in Title 19 of the California Code of Regulations, the County of San Diego Department of Environmental Health, Hazardous Materials Division (HMD), has received an updated certified Risk Management Plan (RMP) from the following site:

**MMC Chula Vista, LLC**

At:

**3497 Main Street**

**Chula Vista, CA 91911**

HMD has initiated the process for government and public review.

Interested parties may be added to a notification mailing list by submitting a written request to the Risk Management Plan Coordinator, County of San Diego, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261.





COUNTY OF SAN DIEGO

206738 New  
PERMIT # 139211 (old)

SUPPLEMENTAL INSPECTION REPORT

DATE: 05 / 11 / 06  
2 OF 2

BUSINESS ADDRESS: MMC Chula Vista, LLC 1968 Don Lee Place, Escondido ZIP CODE: 91911

The Chula Vista and Escondido sites share one four gas meter (Model 8800) between the two sites. Recommend keep a separate four gas meeter at both facilities. Assure that this meter is kept calibrated according to the manufacture's specification and kept charged and ready for use at all times. Also, the THC calibration gas sen on site today is not appropriate to calibrate the four gas meter. This gas was probably for calibrating total hydrocarbons emitted through exhaust monitored by the CEMS. Obtain an appropriate calibration gas for this meter and keep the meter calibrated and charged ready for use at all times.

Hazardous wastes generated include waste oil, ocassionaly waste glycol coolant, oil contaminated soils (rags and absorbant), used oil filters, and lead acid battery cores.

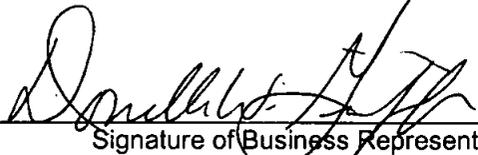
An updated Hazardous Materials Business Plan was accepted in the field today.

Assure that mosquitos do not breed in the storm water detention basins. If you need any help with mosquito control, please call our Vector Control Division at 858-694-2888. Their services are paid for through an assesment already on your annual property tax.

Assure that all piping is clearly labeled with the contents and direction of flow. A copy of the American National Standards Institute (ANSI) piping standards is provided to help with this.

Strongly recommend developing a polyball maintenance program. The black plastic balls may deteriorate in the sun. Cracked or damaged polyballs may trap rain water or any leaked aqueous ammonia and make the clean up even more difficult.

Keep copies of hazardous waste manifests and bills of lading on site to document proper disposal of hazardous wastes and recyclable materials generated on site.

  
Signature of Business Representative

5/15/06  
Date Signed

Environmental Consultant  
Title

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222



# COUNTY OF SAN DIEGO

## COMPLIANCE INSPECTION REPORT

PAGE 1 OF 1 DATE 05/11/06  
 PERMIT # \_\_\_\_\_  
 TIME START 08<sup>30</sup> END 11<sup>00</sup>  
 BUS. CODE K5  
 SPECIALIST M. McCabe  
 INSPECTION CONTACT/TITLE Mark Wellard / operator  
 PHONE: (619) 420-3291

BUSINESS NAME MMC Chula Vista, LLC  
 ADDRESS 3497 Main Street  
 CITY/ZIP Chula Vista, CA 91911

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

**NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.**

- |   |                          |   |                          |                          |                                     |
|---|--------------------------|---|--------------------------|--------------------------|-------------------------------------|
| Y   | N/A                      |   | Y                        | N/A                      |                                     |
| <input type="checkbox"/>  | <input type="checkbox"/> | Unified Program Facility Permit current and available             | <input type="checkbox"/> | <input type="checkbox"/> | Permit Expires on: <u>  /  /  </u>  |
| <input type="checkbox"/>  | <input type="checkbox"/> | Hazardous Materials Business Plan available                       | <input type="checkbox"/> | <input type="checkbox"/> | Contingency Plan available          |
| <input type="checkbox"/>  | <input type="checkbox"/> | Employee Training is adequate                                     | <input type="checkbox"/> | <input type="checkbox"/> | Employee Training records available |
| <input type="checkbox"/>  | <input type="checkbox"/> | Waste disposal records available for review                       | <input type="checkbox"/> | <input type="checkbox"/> | Waste containers kept closed        |
| <input type="checkbox"/>  | <input type="checkbox"/> | Emergency contacts current <input type="checkbox"/> Updated today | <input type="checkbox"/> | <input type="checkbox"/> | Waste containers kept labeled       |
| <input type="checkbox"/>  | <input type="checkbox"/> | Chemical inventory current <input type="checkbox"/> Updated today | <input type="checkbox"/> | <input type="checkbox"/> | Waste containers in good condition  |
| <input type="checkbox"/> All violations noted on this compliance inspection report were corrected during this inspection. |                          |   |                          |                          |                                     |

*Change of owner / Routine Compliance Inspection conducted today. Permission to inspect granted by Mark Wellard and Donelle Griffin.*

RECEIVED JUL 17 2006

*No violations observed today. This is a preliminary inspection report. A more detailed report will follow.*

<input type="checkbox"/> This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.	_____ Initials of Business Representative
---	--

Donelle W. Griffin                      5/11/06                      Environmental Consultant  
 Signature of Business Representative      Date Signed                      Title of Business Representative

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222; [sdcdch.org](http://sdcdch.org)



# COUNTY OF SAN DIEGO

## COMPLIANCE INSPECTION CHECKLIST CalARP Program

PERMIT # 206738DATE 05/11/06PAGE — OF —BUSINESS ADDRESS: mnc chula vista 3497 main street cv ZIP: 91911

**VIOLATION REPORT:** The items checked below refer to specific section numbers of Title 19 of the California Code of Regulations (CCR), Chapter 6.95 of the Health and Safety Code (HSC), and/or the San Diego County Code (SDCC).

All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

The following abbreviations are used throughout this document: SS=Stationary Source; O/O=Owner/Operator; C

- | Viol #                   | VIOL VIOLATION DESCRIPTION                                    |
|--------------------------|---|
| <input type="checkbox"/> | <b>General Requirements</b>                                   |
| <input type="checkbox"/> | V2501 Stationary Source did not prepare RMP, RS(T1,2). 2735.4 |
| <input type="checkbox"/> | V2502 General requirements not met by owner/operator. 2735.5  |
| <input type="checkbox"/> | V2503 P2-ER program not implemented by O/O. 2535(e)(4)        |
| <input type="checkbox"/> | V2504 Hazard Assessment not done by O/O-P3. 2535(f)(2)        |
| <input type="checkbox"/> | V2505 Prev. program requirements not implemented. 2535(f)(3)  |
| <input type="checkbox"/> | V2506 ER Program not implemented P3. 2535(f)(4)               |
| <input type="checkbox"/> | V2507 Management System not developed by O/O. 2735.6          |
| <input type="checkbox"/> | V2508 Registration information not submitted. 2740.1          |

### RMP Submission 2745.1

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2509 RMP not submitted by owner/operator. 2745.1               |
| <input type="checkbox"/> | V2510 RMP not certified complete by O/O. 2745.2(a)              |
| <input type="checkbox"/> | V2511 Corrections on deficiency notice not done. 2745.2(a)      |
| <input type="checkbox"/> | V2512 30-day extension for corrections not requested. 2745.2(a) |

### RMP Updates 2745.10

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2601 RMP not updated by Owner/Operator. 2745.10               |
| <input type="checkbox"/> | V2602 RMP not updated within 5 years of submittal. 2745.10     |
| <input type="checkbox"/> | V2603 RMP level not updated within 6 months of change. 2745.10 |
| <input type="checkbox"/> | V2604 RMP not updated prior to having RS onsite. 2745.10       |
| <input type="checkbox"/> | V2605 RMP not updated w/i 30 days of O/O change. 2745.10(f)    |

### OCA-Offsite Consequence Analysis 2750.7-8

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2609 Offsite Consequences not rev/updated e/5 yrs. 2750.7(a) |
| <input type="checkbox"/> | V2610 Offsite Cons. no rev/upd w/i 6 mo. of change. 2750.7(b) |
| <input type="checkbox"/> | V2611 Rev OCA not sent to HMD w/i 6 mo. of change. 2750.7(b)  |
| <input type="checkbox"/> | V2612 Offsite Consequences documents not kept by O/O. 2750.8  |

### ARTICLE 5: Prevention Program 2

#### Safety Information 2755.1

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2651 O/O did not compile/maintain safety information. 2755.1 |
| <input type="checkbox"/> | V2652 O/O did not update safety info.-major changes. 2755.(c) |

#### Hazard Review 2755.2

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2653 O/O did not meet all hazard review requirements. 2755.2     |
| <input type="checkbox"/> | V2654 O/O did not doc. & correct hazard review issues. 2755.2(e)  |
| <input type="checkbox"/> | V2655 O/O did not complete/update hazard review e/5yrs. 2755.2(f) |

#### Operating Procedures 2755.3

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2656 O/O did not meet operating procedure requirements. 2755.3 |
| <input type="checkbox"/> | V2657 O/O did not prepare operating procedures. 2755.3(a)       |
| <input type="checkbox"/> | V2658 O/O did not update operating procedures. 2755.3(c)        |

#### Training Program 2755.4

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2659 O/O did not meet training program requirements. 2755.4     |
| <input type="checkbox"/> | V2660 Present/new employees not trained-on op. proced. 2755.4(a) |
| <input type="checkbox"/> | V2661 Did not do refresher training every 3 years. 2755.4(b)     |
| <input type="checkbox"/> | V2662 Employees not trained on updated/new procedures 2755.4(d)  |

#### Maintenance 2755.5

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2663 O/O did not meet maintenance program req. 2755.5     |
| <input type="checkbox"/> | V2664 O/O did not prepare integrity procedures. 2755.5(a)  |
| <input type="checkbox"/> | V2665 O/O did not train on integrity procedures. 2755.5(b) |
| <input type="checkbox"/> | V2666 Contractor did not train employees. 2755.5(c)        |
| <input type="checkbox"/> | V2667 Did not inspect and test equipment. 2755.5(d)        |

### Viol # VIOL VIOLATION DESCRIPTION

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | <b>Compliance Audits 2755.6</b>                                   |
| <input type="checkbox"/> | V2668 Owner/Operator did not meet audit requirements. 2755.6      |
| <input type="checkbox"/> | V2669 Owner/Operator did not certify the audit. 2755.6(a)         |
| <input type="checkbox"/> | V2670 Owner/Operator did not respond to audit findings. 2755.6(d) |
| <input type="checkbox"/> | V2671 Did not keep 2 most recent audit reports. 2755.6(e)         |

#### Incident Investigation

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2672 O/O did not meet incident investigation req. 2755.7 |
|--------------------------|---|

### ARTICLE 6: Prevention Program 3

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2701 O/O did not meet requirements for PSI Info. 2760.1 |
| <input type="checkbox"/> | V2702 Owner/Operator did not meet PHA req. 2760.2        |

#### Operating Procedures 2760.3

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2703 O/O did not meet Operating Procedure Requirem. 2760.3 |
| <input type="checkbox"/> | V2704 O/O did not prepare OP-procedures. 2760.3(a)          |
| <input type="checkbox"/> | V2705 OP-procedures not accessible to employees. 2760.3(b)  |
| <input type="checkbox"/> | V2706 O/O did not annually certify OP-procedures. 2760.3(c) |

#### Training Program 3. 2760.4

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2707 O/O did not meet training program requirements. 2760.4 |
| <input type="checkbox"/> | V2708 O/O did not provide initial training. 2760.4(a)(1)     |
| <input type="checkbox"/> | V2709 O/O did not provide refresher training. 2760.4(b)      |
| <input type="checkbox"/> | V2710 O/O did not maintain training documentation. 2760.4(c) |

#### Mechanical Integrity 2760.5

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2711 O/O did not meet Mechanical Integrity requirements. 2760.5  |
| <input type="checkbox"/> | V2712 O/O did not establish integrity procedure. 2760.5(b)        |
| <input type="checkbox"/> | V2713 O/O did not train each employee on integrity proc.          |
| <input type="checkbox"/> | V2714 Test frequency inadequate. 2760.5(d)(3)                     |
| <input type="checkbox"/> | V2715 Inadequate documentation of inspections/tests. 2760.5(d)(4) |
| <input type="checkbox"/> | V2716 O/O did not correct equipment deficiencies. 2760.5(e)       |

#### Management of Change 2760.6

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2717 O/O did not meet management change requirements. 2760.6    |
| <input type="checkbox"/> | V2718 Did not establish procedures for manag. Changes. 2760.6(a) |

#### Pre-Startup Review 2760.7

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2719 O/O did not meet pre-startup safety review Req. 2760.7   |
| <input type="checkbox"/> | V2720 O/O did not do PHA prior to startup. 2760.7(b)(3)        |
| <input type="checkbox"/> | V2721 S-review did not include employee training. 2760.7(b)(4) |

#### Compliance Audits 2760.8

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2722 Did not meet audit requirements. 2760.8 |
|--------------------------|---|

#### Incident Investigation 2760.9

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2723 O/O did not meet incident investigation requirem. 2760.9      |
| <input type="checkbox"/> | V2724 O/O did not retain investigation reports for 5 yrs. 2760.9(g) |

#### Employee Participation. 2760.10

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2725 Employee participation plan requirements not met. 2760.10 |
|--------------------------|---|

#### Hot Work (HW) Permit. 2760.11

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2726 O/O did not meet work permit requirements. 2760.11 |
|--------------------------|--|

#### Contractors 2760.12

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2727 Did not meet contractor safety requirements. 2760.12(b)(1) |
|--------------------------|--|

#### Contract Owner (CO)/Operator Responsibilities. 1260.12(c)

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | V2728 CO did not meet contract operator responsibility 2760.12(c) |
| <input type="checkbox"/> | V2729 CO training documentation not maintained. 2760.12(c)(3)     |

### ARTICLE 7: Emergency Response Program

- |                          |  |
|--------------------------|--|
| <input type="checkbox"/> | V2801 O/O did not implement Emerg. Response Plan. 2765.1(a)  |
| <input type="checkbox"/> | V2802 ER plan not cord w plan, Sec 11003 Ti42 USC. 2765.2(c) |

SIGNATURE OF BUSINESS REPRESENTATIVE

DATE SIGNED

TITLE OF BUSINESS REPRESENTATIVE



**SAN DIEGO COUNTY  
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA  
HAZARDOUS MATERIALS DIVISION  
P.O. BOX 129261, SAN DIEGO, CA 92112-9261  
(619) 338-2222 FAX (619) 338-2377  
1-800-253-9933**

RECEIVED

JAN 27 PM 2 16

**BUSINESS ACTIVITIES**

<b>I. FACILITY IDENTIFICATION</b>										Page <b>1</b> of <b>1</b>			
FACILITY ID #	3	7	0	0	0	2	0	6	7	3	8	EPA ID # (Hazardous Waste Only) <b>CAL 000-303 061</b>	2
BUSINESS NAME (Same as Facility Name of DBA-Doing Business As)													3
MMC Chula Vista, LLC													

**II. ACTIVITIES DECLARATION**

**NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page (OES Form 2730).**

Does your facility...	If Yes, please complete these pages of the UPCF....	
<b>A. HAZARDOUS MATERIALS</b> Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	4      HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (OES 2731)
<b>B. UNDERGROUND STORAGE TANKS (USTs)</b> <ul style="list-style-type: none"> <li>▪ Own or operate underground storage tanks?</li> <li>▪ Intend to upgrade existing or install new USTs?</li> </ul>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	5      UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	6      UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
▪ Need to report closing a UST?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	7      UST TANK (closure portion - one page per tank)
<b>C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)</b> Own or operate ASTs above these thresholds: —any tank capacity is greater than 660 gallons, or —the total capacity for the facility is greater than 1,320 gallons?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	8      NO FORM REQUIRED TO CUPAS
<b>D. HAZARDOUS WASTE</b> <ul style="list-style-type: none"> <li>▪ Generate hazardous waste?</li> <li>▪ Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?</li> <li>▪ Treat hazardous waste on site?</li> </ul>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	9      EPA ID NUMBER - provide at the top of this page
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	10      RECYCLABLE MATERIALS REPORT (one per recycler)
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	11      ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772) ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772 A, B, C, D and L)
▪ Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	12      CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
▪ Consolidate hazardous waste generated at a remote site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13      REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
▪ Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14      HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

<b>E. LOCAL REQUIREMENTS</b>		15
<b>MEDICAL WASTE</b>		
Generate <200 lbs/month of Medical/Biohazardous Waste?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Generate ≥200 lbs/month of Medical/Biohazardous Waste?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Generate ≥200 lbs/month of Medical/Biohazardous Waste and treat any amount of medical waste	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Handle Toxic gases with threshold limit concentration (TLV) # 10 ppm in any quantity?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	



UPF Permit#: 2067-38

DATE INSPECTED: 5/11/06

## UNIFIED PROGRAM FACILITY PERMIT APPLICATION

This business or service is required to obtain a Unified Program Facility Permit from the San Diego County Department of Environmental Health. I answered "yes" to one or more of the questions on the "Business Activities" form.

Date assumed business ownership at this location: 01 / 09 / 2006

I have determined that this business or service does not require a Unified Program Facility Permit from the San Diego County Department of Environmental Health.

I declare under penalty of perjury that to the best of my knowledge and belief the statements made herein are correct and true. I consent to all necessary inspections allowed by law and incidental to the issuance of required permit(s) and the operation of this business.

Signature: M V Quinn

Title: Principal; Chief Operating Officer

Printed Name: Martin V. Quinn

Date: 5/27/06

Type of Business: Power Generation

Phone #: (212) 977-0900  
Area Code

**Please complete the business information on the following page and return this application to the San Diego County Department of Environmental Health at:**

SAN DIEGO COUNTY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION  
P.O. BOX 129261  
SAN DIEGO CA 92112-9261

If a San Diego County Unified Program Facility Permit is required for your business or service a representative of this Department will contact your business. Permit fees will be determined from the contact and a billing statement will be mailed.

**NOTE:** If you do not use hazardous materials, generate hazardous waste, or have underground storage tanks you are still required to return this form.

A representative of the San Diego County Department of Environmental Health may contact you to verify the information provided on this application.

206738 please file  
M. McCabe 06/23/06

*Donelle Griffin*  
*Environmental Consulting*  
*7911 Blue Jay Place*  
*San Diego, CA 92123-3311*

May 11, 2006

Mr. Mark McCabe  
County of San Diego  
Department of Environmental Health  
Hazardous Materials Division  
P.O. Box 129261  
San Diego, CA 92112-9261

Subject: Hazardous Material Business Plan Updates

Dear Ms. Mark,

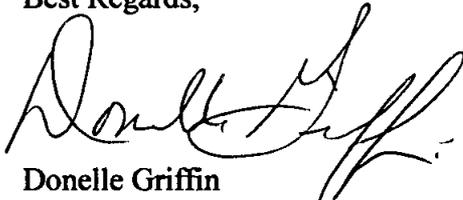
On behalf of MMC Energy North America, LLS, I am submitting updated Hazardous Materials Business Plans for the following two sites:

MMC Escondido, LLC (101955)  
1968 Don Lee Place  
Escondido, CA 92029

MMC Chula Vista, LLC (139211)  
3497 Main Street  
Chula Vista, CA 91911

These sites were acquired by MMC Energy North America, LLC on January 9, 2006. Chemicals were brought on site April 21<sup>st</sup> requiring an update of the plans. Please feel free to contact me if you have any questions or concerns.

Best Regards,



Donelle Griffin  
Environmental Consulting  
858-354-4995

Enclosures

CC: Martin V. Quinn, MMC Energy North America, LLC  
Denis Gagnon, MMC Energy North America, LLC



**SAN DIEGO COUNTY  
DEPARTMENT OF ENVIRONMENTAL HEALTH - CUPA  
HAZARDOUS MATERIALS DIVISION  
P.O. BOX 129261, SAN DIEGO, CA 92112-9261  
(619) 338-2222 FAX (619) 338-2377  
1-800-253-9933**

**BUSINESS OWNER/OPERATOR IDENTIFICATION**

Page of

**I. IDENTIFICATION**

FACILITY ID#	3 7 0 0 0 1 0 1 9 5 8	BEGINNING DATE	ENDING DATE
		2006-01-09	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)		BUSINESS PHONE	
MMC Chula Vista, LLC		(619) 420-3291 x	
BUSINESS SITE ADDRESS			
3497 Main Street			
CITY	CA	ZIP CODE	
Chula Vista		91911-	
DUN & BRADSTREET		SIC CODE (4 digit #)	
363602033		2212	
COUNTY			
San Diego			
BUSINESS OPERATOR NAME		BUSINESS OPERATOR PHONE	
MMC Energy North America, LLC		(212) 977-0900 x	

**II. BUSINESS OWNER**

OWNER NAME	OWNER PHONE	
MMC Energy North America, LLC	(212) 977-0900 x	
OWNER MAILING ADDRESS		
26 Broadway Suite 907		
CITY	STATE	ZIP CODE
New York	NY	10004-

**III. ENVIRONMENTAL CONTACT**

CONTACT NAME	CONTACT PHONE	
Donelle Griffin	(858) 354-4995 x	
CONTACT MAILING ADDRESS		
7911 Blue Jay Place		
CITY	STATE	ZIP CODE
San Diego	CA	92123-

-PRIMARY-

**IV. EMERGENCY CONTACTS**

-SECONDARY-

NAME	NAME
Martin V. Quinn <i>Mark Weller</i>	Donelle Griffin
TITLE	TITLE
Principal, Chief Operating Officer <i>Site operator</i>	Environmental Consultant
BUSINESS PHONE	BUSINESS PHONE
(212) 977-0900 x <i>619-420-3291</i>	(858) 354-4995 x
24-HOUR PHONE	24-HOUR PHONE
PAGER #	PAGER #

ADDITIONAL LOCALLY COLLECTED INFORMATION:	
E-MAIL: *	E-MAIL: *
mquinn@mmcnorthamerica.com	dgriff1@san.rr.com

\*This information is optional and will remain confidential. Complete if you want to receive periodic program updates from HMD.  
ALWAYS SUBMIT A COPY OF THIS COMPLETED PAGE WITH SUBMITTAL OF ANY OTHER UNIFIED PROGRAM CONSOLIDATED FORM.

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE	NAME OF DOCUMENT PREPARER
<i>MV Quinn</i>	01/27/06	Donelle Griffin
NAME OF SIGNER (print)	TITLE OF SIGNER	
Martin V. Quinn	Principal, Chief Operating Officer	

**APPENDIX F**  
**SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT**

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## PREAMBLE

This Title V Operating Permit consists of this document and all appendices, including District permits incorporated by reference. The facility is subject to all applicable requirements identified within this permit, unless a specific permit shield is specified within this permit. If an applicable requirement is omitted from this permit, the facility is still obligated to comply with such an applicable requirement. The permittee must comply with all of the terms listed in each section of this permit.

This permit contains five major sections: Section I contains the Regulation XIV requirements required to carry out the Title V Operating Permit program. Section II contains the requirements that are applicable to the facility on a facility-wide basis. Section III contains the requirements that are applicable to individual emission units which have been issued District permits or District registration, or which have been determined to be insignificant emission units. Section IV contains terms and requirements pertaining to variance procedures and compliance schedules, if applicable to the facility. Section V contains three appendixes. Appendix A contains all the District permits incorporated within this permit. Appendix B contains a table of all rules approved by the District and the rules contained in the State Implementation Plan (SIP). Appendix C contains a list of abbreviations used within this permit. The basis for each condition is noted in brackets following each condition.

Copies of the Rules and Regulations of the Air Pollution Control District of San Diego County and the Rules and Regulations for San Diego County contained in the SIP approved by EPA may be obtained at the District. Copies are also available for review at the following locations:

SD Air Pollution Control District (Library & Public Review Area)	County of SD Law Library (Downtown)	County of SD Law Library (North County)
10124 Old Grove Rd	1105 Front St.	325 S. Melrose Suite 300
San Diego, CA 92131-1649	San Diego, CA 92101	Vista, CA 92083
(858) 586-2600	(619) 531-3900	(760) 940-4386

The current Rules and Regulations of the Air Pollution Control District of San Diego County may also be viewed and downloaded using the following internet address:

[www.sdapcd.org](http://www.sdapcd.org)

The following addresses should be used to submit any certifications, reports or other information required by this permit:

SD Air Pollution Control District  
Compliance Division  
10124 Old Grove Rd  
San Diego, CA 92131-1649

USEPA Region IX  
Director of the Air Division Attn: Air-3  
75 Hawthorne Street  
San Francisco, CA 94105

## **SECTION I. REGULATION XIV PERMIT REQUIREMENTS**

### **A. ADMINISTRATIVE PERMIT TERMS**

1. This Title V Operating Permit expires on April 12, 2010. [Rule 1410]
2. Commencing or continuing operation under this permit to operate shall be deemed acceptance of all terms and conditions specified within this permit. This does not limit the right of the applicant to seek judicial review or seek federal EPA review of a permit term or condition. [Rule 1421]
3. This permit may be modified, revoked, reopened and reissued, or terminated by the District for cause. [Rule 1421]
4. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay the applicability of any permit condition. [Rule 1421]
5. This permit does not convey any property rights of any sort, nor any exclusive privilege. [Rule 1421]
6. The need for the permittee to halt or reduce a permitted activity in order to maintain compliance with any term or condition of this permit shall not be a defense for any enforcement action brought as a result of a violation of any such term or condition. [Rule 1421]
7. In the event of challenge to any portion of this permit, the rest of the permit remains valid. [Rule 1421]
8. For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any applicable requirement in this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. [Rule 1421]

### **B. RENEWAL REQUIREMENTS AND TERMS**

1. The permittee shall submit a complete application for renewal of this permit to the Air Pollution Control Officer no later than April 12, 2009 and no earlier than October 12, 2008. [Rule 1410]
2. If an administratively complete application for renewal of this permit has been submitted to the Air Pollution Control Officer within the dates specified in Section I.B.1., the terms and conditions of this permit shall remain in effect and the source may continue operations under these terms and conditions after April 12, 2010 until the Air Pollution Control Officer issues or denies the permit renewal. [Rule 1410]

**C. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS**

1. The permittee shall provide the District access to the facility and all equipment subject to this permit, and access to all required records pursuant to California Health and Safety Code Section 41510. When requested by the District, records that are maintained in an electronic format, including, but not limited to, those records also maintained as hardcopy, shall be provided in an electronic format acceptable to the District. [Rule 1421]
2. The permittee shall maintain all records required by this permit including any calibration, maintenance, and other supporting information and copies of all reports required by this permit for at least five years from their date of creation. Such records shall be maintained on-site for a minimum of five years. [Rule 1421]
3. The permittee shall submit monitoring and recordkeeping summary reports and all other monitoring and recordkeeping reports required by this permit to the District every six months, unless a shorter time frame is required by a specific permit condition contained in Section III of this permit. Unless other dates are specified in Section III, reports for data required to be collected from January 1 through June 30, shall be submitted no later than September 1 of the calendar year, and reports for data required to be collected from July 1 through December 31, shall be submitted no later than March 1 of the following calendar year. The report for the final six months of the year may be consolidated with the annual compliance certification required below. All instances of noncompliance from federally enforceable applicable requirements shall be clearly identified in these reports. (Timely completion of District Certification Reports Form J1 and Form J2, if applicable, and all indicated attachments, fulfills the requirements of this condition.) [Rule 1421]
4. Each calendar year, the permittee shall submit to the District and to the federal EPA an annual compliance certification, in a manner and form approved in writing by the District, for the previous calendar year that includes the identification of each applicable term or condition of the final permit for which the compliance status is being certified, the compliance status and whether the facility was in continuous or intermittent compliance during the previous calendar year, identification of the method used to determine compliance during the previous calendar year, and any other information required by the District to determine the compliance status. The annual compliance certification for a calendar year shall be submitted no later than March 1 of the following calendar year and may be consolidated with the monitoring and recordkeeping report for the last six months of the year for which compliance is certified. (Timely completion of District Certification Reports Form J1 and Form J2, if applicable, and all indicated attachments, fulfills the requirements of this condition.) [Rule 1421]
5. Any report submitted to the District or federal EPA pursuant to this permit to comply with a federally enforceable applicable requirement, shall be certified by a responsible official stating that, based on information and belief formed after reasonable inquiry, the report is true, accurate and complete. [Rule 1421]

6. The permittee shall make any trade secret designations of records, documents, or other information submitted to the District or federal EPA in accordance with District Rule 176. [Rule 176]
7. The permittee shall report all deviations from any and all federally enforceable permit terms and conditions including: (a) breakdowns, whether or not they result in excess emissions, (b) deviations that result in excess emissions of any regulated air pollutant, and (c) deviations from monitoring, recordkeeping, reporting and other administrative requirements that do not result in excess emissions. For deviations that result from breakdowns under District Rule 98, the permittee shall report the breakdown within two hours of detection of the breakdown and provide a follow-up written report after corrective actions have been taken. For deviations not due to a breakdown but which result in excess emissions, the permittee shall report the deviation within ten calendar days of detection. For all other deviations where no specific time frame for reporting a deviation applies, the permittee shall report the deviation at the time of the next semi-annual monitoring summary or annual compliance certification, whichever occurs first. If an underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, then the criteria for the applicable requirement shall apply. The report must include the probable cause of such deviations and any corrective actions or preventive measures taken. [Rule 1421]

#### **D. GENERAL PERMIT REQUIREMENTS**

1. The permittee shall comply with all terms and conditions of this permit. This permit consists of this document and Appendixes A, B and C. Any noncompliance with the federally applicable terms and conditions of this permit shall constitute a violation of the federal Clean Air Act. Noncompliance with any federally applicable permit term or condition of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Noncompliance with any District permit term or condition is grounds for enforcement action by the District. [Rule 1421]
2. Upon a written request by the District, the permittee shall furnish to the District any information needed to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit; any information required to determine compliance with this permit; or any records required to be maintained pursuant to this permit. Such information shall be provided within a reasonable time, as specified within the District's written request. [Rule 1421]
3. The permittee shall pay annual fees in accordance with District Rule 40. [Rule 1421]
4. The permittee shall provide access, facilities, utilities and any necessary safety equipment for source testing and inspection upon request of the District. [Rule 19]
5. This permit shall be maintained on-site at all times and be made available to the District upon request. [Rule 1410]
6. The Rule Reference Table provided in Appendix B shall be used to determine whether a cited rule is a federally and District enforceable requirement or a District only

enforceable requirement. Any new or revised District rule shall not be considered federally enforceable until the rule is approved by EPA into the SIP. In cases where SIP approval is pending for a revised District rule, the rule citation shall refer to both the current SIP approved rule and the revised District rule. [Rule 1421]

## SECTION II. FACILITY-WIDE REQUIREMENTS

### A. GENERAL PERMIT PROGRAM APPLICABLE REQUIREMENTS

The permittee shall comply with the applicable requirements specified in the Rules and Regulations cited below, unless specifically exempted by the same Rule or Regulation.

Regulation	Rule Citation	Title
SDCAPCD Reg. II	10	Permits Required
SDCAPCD Reg. II	19	Provision of Sampling & Testing Facilities
SDCAPCD Reg. II	19.3	Emission Information
SDCAPCD Reg. II	21	Permit Conditions
SDCAPCD Reg. IV	60	Circumvention
SDCAPCD Reg. V	98	Breakdown Conditions: Emergency Variance
SDCAPCD Reg. VIII	131	Stationary Source Curtailment Plan

### B. GENERAL PROHIBITORY APPLICABLE REQUIREMENTS

The permittee shall comply with the generally applicable requirements specified in the Rules and Regulations cited below, unless specifically exempted by the same Rule or Regulation. These generally applicable requirements apply on a facility-wide basis to all permitted equipment, registered equipment, and insignificant activities. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more permitted emission units, the requirement is also included in Section III.A. of this permit.

Regulation	Rule Citation	Title
SDCAPCD Reg. IV	50	Visible Emissions
SDCAPCD Reg. IV	51	Nuisance
SDCAPCD Reg. IV	67.0	Architectural Coatings
SDCAPCD Reg. IV	67.17	Storage of Materials Containing VOC
SDCAPCD Reg. IV	71	Abrasive Blasting
SDCAPCD Reg. VI	101	Burning Control
SDCAPCD Reg. XI	Subpart M, 361.145	Standard for Demolition and Renovation
SDCAPCD Reg. XI	Subpart M, 361.150	Standard for Waste Disposal for Manufacturing, Fabricating, Demolition, Renovation, and Spraying Operations
40 CFR Part 82	Subpart F	Recycling and Emissions Reduction

### C. PERMIT SHIELDS

The permittee is granted a permit shield from enforcement action for the rules cited in the table below based on the District's determination that such rules are not applicable to any

operation at this facility. Permittee shall not perform any operation or activity subject to the rules cited in the table below.

Regulation	Rule Citation	Title
SDCAPCD Reg. IV	52	Particulate Matter
SDCAPCD Reg. IV	54	Dust and Fumes
SDCAPCD Reg. VIII	132	Traffic Abatement Plan

**D. TITLE IV (ACID RAIN) REQUIREMENTS**

1. The permittee shall not exceed any emission allowances that are lawfully held under Title IV of the federal Clean Air Act or the regulations promulgated thereunder. [1421]
2. The permittee shall install, operate, and maintain equipment for the continuous monitoring of O<sub>2</sub> and NO<sub>x</sub> on the common stack in accordance with 40 CFR Parts 72 and 75. [40 CFR Parts 72 and 75]
3. The permittee shall prepare and maintain onsite a written Quality Assurance program in accordance with 40 CFR Part 75, Appendix B, for the continuous monitoring of NO<sub>x</sub> emissions from the common stack. The components of the Quality Assurance program include, but are not limited to, procedures for daily calibration testing, quarterly linearity testing, record keeping and reporting implementation, and relative accuracy testing. [40 CFR Parts 72 and 75]
4. The permit holder shall monitor SO<sub>2</sub> emissions in accordance with 40 CFR Part 72 and 75. [40 CFR Parts 72 and 75]
5. The permit holder shall submit quarterly Electronic Data Reports (EDRs) to EPA for the emissions from the common stack in accordance with 40 CFR Part 75. These reports must be submitted within 30 days following the end of each calendar quarter and shall include all information required in § 75.64. (40 CFR Part 75)
6. The permittee is issued allowances in accordance with the Acid Rain Permit in Appendix D.

**E. ADDITIONAL TERMS AND REQUIREMENTS**

1. Any emission unit described in this Title V operating permit as being fired on natural gas, shall only use Public Utility Commission (PUC)-quality natural gas, unless the emission unit permit specifies otherwise. Permittee shall provide records of the natural gas sulfur content to the District upon request. [Rule(s) 53, 62]
2. Records required by this permit shall be considered as being maintained "on-site" if records for the previous 12-month period are available at the stationary source. [Rule 21]
3. The permittee shall file quarterly emission reports in accordance with Rule 19.2. [Rule 19.2]

**SECTION III. EMISSION UNIT REQUIREMENTS**

**A. DISTRICT PERMITTED EMISSION UNITS**

The District Permits listed below and attached in Appendix A, including all terms and conditions of such permits, constitute the emission unit portion of this Title V Operating Permit document.

Permit Number	Source Category
976039	Turbine

**B. REGISTERED AND LEASED EMISSION UNITS**

The permittee shall comply with the source specific applicable requirements specified in the Rules and Regulations cited below for all registered and leased emission units, unless specifically exempted by the same Rule or Regulations.

Regulation	Rule Citation	Title
SDCAPCD Reg. IV	62	Sulfur Content of Fuels
SDCAPCD Reg. IV	69.4	Stationary Reciprocating Internal Combustion Engines

**C. INSIGNIFICANT EMISSION UNITS AND ACTIVITIES**

The permittee shall comply with the source specific applicable requirements specified in the Rules and Regulations cited below for all emission units not required to obtain a District Permit to Operate pursuant to Rule 11, unless specifically exempted by the same Rule or Regulations.

Regulation	Rule Citation	Title
SDCAPCD Reg. IV	62	Sulfur Content of Fuels
SDCAPCD Reg. IV	66	Organic Solvents

**SECTION IV. VARIANCE PROCEDURES**

**VARIANCE PROCEDURES**

The permittee may seek relief from District enforcement action in the event of a breakdown in accordance with District Rule 98. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance does not provide relief from federal enforcement or citizen's suits. [Rule 98]

**SECTION V. APPENDICES**

**APPENDIX A: DISTRICT PERMITS (Attached)**

Permit Number	Source Category
976039	Turbine

(Display)

PO DISPLAY FORM

PO: 976039 RENEWAL  
 ID: 7084 A Date: 01-Feb-2007  
 BEC: 12355 Fees: \$4,953.00 Date Aprvd: 13-Jun-2006  
 RENEWAL Recvd: \$0.00 Date Creatd:13-Jun-2006  
 ACTIVE Recvd On:  
 RENEWAL Due by:  
 STATIONARY Printed:  
 Remarks S\_Test?: Y  
 Freqncy: 1

Comments: REPRINT W/ CORRECT EXPIRATION DATE 4/06

DBA: MMC CHULA VISTA LLC  
 LOC: DONELLE GRIFFIN

3497 MAIN ST  
 CHULA VISTA CA 919110000

TEL: 8583544995

GAS TURBINE (TWIN PACK): PRATT & WHITNEY, MODEL FT4/GG4, 44 MW,  
 688 MMBTU/HR HEAT INPUT, NATURAL GAS FIRED, SIMPLE CYCLE, S//N 675318 AND  
 675352, WITH DRY LOW-NOX COMBUSTORS, A SELECTIVE CATALYTIC REDUCTION (SCR)  
 SYSTEM INCLUDING AN AUTOMATIC AMMONIA INJECTION SYSTEM, A CONTINUOUS  
 EMISSIONS MONITORING SYSTEM (CEMS), AND A DATA ACQUISITION AND RECORDING  
 SYSTEM. (983127 5/05)(976039 ALC 08/03)

FS: 20F01 92F01 92I01 92J01

RULES: 69.3.1

INSP:	VAR	PO	976039	7084 A	13-Jul-2006
	ANN	PO	976039	7084 A	13-Jul-2006
	ANN	PO	976039	7084 A	20-Dec-2005
	ANN	PO	976039	7084 A	26-May-2004
	BKD	PO	976039	7084 A	31-Oct-2003
	VAR	AP	976039	7084 A	10-Jun-2003
	ANN	AP	976039	7084 A	09-Jun-2003
	VAR	AP	976039	7084 A	09-Jun-2003
	QT1	AP	976039	7084 A	17-Oct-2002

S\_TEST DATES: 18-Sep-2003 18-Sep-2003 18-Sep-2003 18-Sep-2003 18-Sep-2003

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28320

THE PERMITTEE SHALL COMPLY WITH THE FOLLOWING APPLICABLE REQUIREMENTS:  
 40 CFR PARTS 60, 72 AND 73.

28321

PROVIDED THE EQUIPMENT SUBJECT TO THIS PERMIT IS OPERATED IN COMPLIANCE  
 WITH ALL OF THE SECTION (A) CONDITIONS LISTED BELOW AS THEY EXIST ON THE  
 DATE OF ISSUANCE OF THIS PERMIT, A PERMIT SHIELD IS GRANTED FROM  
 ENFORCEMENT ACTION FOR THE FOLLOWING APPLICABLE REQUIREMENTS: RULE 53,  
 RULE 62, RULE 68, RULE 69.3, 40 CFR PART 60 SUBPART GG, AND 40 CFR PART 75.

26505

WHEN OPERATING ON NATURAL GAS, THE TURBINE SHALL BE FIRED ON PUBLIC  
 UTILITY COMMISSION (PUC) QUALITY NATURAL GAS ONLY. THE PERMITTEE SHALL  
 MAINTAIN, ON SITE, QUARTERLY RECORDS OF THE NATURAL GAS SULFUR CONTENT  
 (GRAINS OF SULFUR COMPOUNDS PER 100 DSCF OF NATURAL GAS) AND THE HIGHER AND  
 LOWER HEATING VALUES (BTU/SCF) OF THE NATURAL GAS; AND PROVIDE SUCH RECORDS  
 TO DISTRICT PERSONNEL UPON REQUEST.

25581

SUFFICIENT SO2 TRADING ALLOWANCES WILL BE PURCHASED BY THE PERMITTEE TO  
 OFFSET POTENTIAL SO2 EMISSIONS FOLLOWING THE REQUIREMENTS DESCRIBED IN 40  
 CFR 73. PERMITTEE SHALL HOLD ALLOWANCES, AS OF THE ALLOWANCES TRANSFER  
 DEADLINE, IN THE FACILITY'S (DEPARTMENT OF ENERGY'S OFFICE OF REGULATORY  
 INFORMATION SYSTEM "ORIS" CODE FOR EACH UNIT, THE TWIN PAC IS A "UNIT")  
 COMPLIANCE SUB-ACCOUNT (AFTER DEDUCTIONS UNDER 40 CFR 73.34 (C)) NOT LESS  
 THAN THE TOTAL ANNUAL EMISSIONS OF SULFUR DIOXIDE FOR THE PREVIOUS CALENDAR  
 YEAR FROM THE UNIT.

26595

ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED ON SITE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. IF THIS SITE BECOMES UNMANNED, THE PERMITTEE SHALL SUBMIT AN ALTERNATE SITE FOR THE MAINTENANCE OF RECORDS TO THE DISTRICT FOR APPROVAL.

26596

EXCEPT DURING STARTUPS AND SHUTDOWNS, THE AIR POLLUTION CONTROL SYSTEM, INCLUDING THE AUTOMATIC AMMONIA INJECTION SYSTEM SERVING THE SCR, SHALL BE IN OPERATION IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AT ALL TIMES WHEN THE TURBINE IS IN OPERATION. ALL MANUFACTURER'S SPECIFICATIONS SHALL BE MAINTAINED ON SITE AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

26597

IN THE EVENT OF A BREAKDOWN IN AN AUTOMATIC AMMONIA INJECTION CONTROL SYSTEM, THE TURBINE SHALL BE SHUT DOWN OR A TRAINED OPERATOR SHALL OPERATE THE AMMONIA INJECTION CONTROL SYSTEM MANUALLY AND THE BREAKDOWN SHALL BE REPORTED TO THE DISTRICT COMPLIANCE DIVISION PURSUANT TO RULE 98(B)(1) AND 98(E).

26598

AN APPLICATION FOR MODIFICATION OF DISTRICT PERMITS FOR THIS EQUIPMENT SHALL BE REQUIRED FOR ANY PROPOSED PHYSICAL OR OPERATIONAL MODIFICATION TO THE EQUIPMENT DESCRIBED HEREIN, INCLUDING A MODIFICATION TO CONVERT THIS SIMPLE CYCLE UNIT TO A COMBINED CYCLE UNIT. APPLICABLE NEW SOURCE REVIEW REQUIREMENTS FOR THE PROPOSED EQUIPMENT MODIFICATION SHALL BE RE-EVALUATED AT THAT TIME.

26599

FOR THE PURPOSES OF THIS PERMIT TO OPERATE, STARTUP CONDITIONS SHALL BE DEFINED AS THE TIME WHEN FUEL FLOW BEGINS UNTIL THE TIME THAT THE UNIT COMPLIES WITH THE EMISSION LIMITS SPECIFIED IN THIS PERMIT TO OPERATE BUT IN NO CASE EXCEEDING 60 MINUTES PER OCCURRENCE. SHUTDOWN CONDITIONS SHALL BE DEFINED AS THE TIME PRECEDING THE MOMENT AT WHICH FUEL FLOW CEASES AND DURING WHICH THE UNIT DOES NOT COMPLY WITH THE EMISSION LIMITS SPECIFIED IN THIS PERMIT TO OPERATE BUT IN NO CASE EXCEEDING 30 MINUTES PER OCCURRENCE. THE DATA ACQUISITION SYSTEM (DAS), AS REQUIRED BY 40 CFR 75, SHALL RECORD THESE EVENTS.

26600

TOTAL COMBINED OXIDES OF NITROGEN (NOX) EMISSIONS FROM ALL TURBINES, AND ANY OTHER EMISSION UNITS AT THIS STATIONARY SOURCE, SHALL NOT EXCEED THE MAJOR SOURCE THRESHOLD OF 50 TONS PER CALENDAR YEAR. THE DAILY NOX MASS EMISSIONS FROM EACH TURBINE SHALL BE RECORDED DAILY. THE AGGREGATE NOX MASS EMISSIONS FROM ALL TURBINES FOR EACH CALENDAR MONTH, AND FOR EACH ROLLING 12-MONTH PERIOD, SHALL BE CALCULATED AND RECORDED BY THE 15TH CALENDAR DAY OF THE FOLLOWING MONTH. IN THE EVENT THAT AN ANNUAL MAJOR STATIONARY SOURCE THRESHOLD IS PROJECTED TO BE TRIGGERED, THE PERMITTEE SHALL SUBMIT A COMPLETE APPLICATION TO MODIFY THIS PERMIT AT LEAST 6 MONTHS PRIOR TO THE PROJECTED DATE OF EXCEEDANCE DEMONSTRATING HOW COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS WILL BE ACHIEVED.

26601

THE EMISSIONS OF OXIDES OF NITROGEN (NOX), CALCULATED AS NITROGEN DIOXIDE, FROM THE TURBINE EXHAUST STACK SHALL NOT EXCEED 9 PARTS PER MILLION VOLUME ON A DRY BASIS (PPMVD) CORRECTED TO 15% OXYGEN AND AVERAGED OVER EACH CLOCK HOUR AND SHALL NOT EXCEED 5 PPMVD CORRECTED TO 15% OXYGEN AND AVERAGED OVER EACH CONTINUOUS ROLLING 3-HOUR PERIOD. COMPLIANCE WITH THESE LIMITS SHALL BE DEMONSTRATED CONTINUOUSLY BASED ON CEMS DATA AND SOURCE TESTING, CALCULATED AS THE AVERAGE OF THREE SUBTEST. THESE LIMITS SHALL NOT APPLY DURING STARTUP AND SHUTDOWN CONDITIONS.

26603

TOTAL COMBINED CARBON MONOXIDE (CO) EMISSIONS FROM ALL TURBINES, AND ANY OTHER EMISSION UNITS, AT THIS STATIONARY SOURCE SHALL NOT EXCEED THE PREVENTION OF SIGNIFICANT DETERIORATION (PSD) THRESHOLD OF 250 TONS PER CALENDAR YEAR. THE DAILY CO MASS EMISSIONS FROM EACH UNIT SHALL BE RECORDED DAILY. THE AGGREGATE CO MASS EMISSIONS FROM ALL TURBINES FOR EACH CALENDAR MONTH, AND FOR EACH ROLLING 12-MONTH PERIOD, SHALL BE CALCULATED AND RECORDED BY THE 15TH CALENDAR DAY OF THE FOLLOWING MONTH. IN THE EVENT THAT THE ANNUAL PSD STATIONARY SOURCE THRESHOLD IS PROJECTED TO BE TRIGGERED,

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S\_TEST DATES: 26-Feb-2003 26-Feb-2003 06-Sep-2002 06-Sep-2002 06-Sep-2002

26603

THE PERMITTEE SHALL SUBMIT A COMPLETE APPLICATION TO MODIFY THIS PERMIT AT LEAST 6 MONTHS PRIOR TO THE PROJECTED DATE OF EXCEEDANCE DEMONSTRATING HOW COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS WILL BE ACHIEVED.

26604

EMISSIONS OF CARBON MONOXIDE (CO) FROM THE TURBINE EXHAUST STACK SHALL NOT EXCEED 70 PARTS PER MILLION VOLUME ON A DRY BASIS (PPMVD) CORRECTED TO 15% OXYGEN AND AVERAGED OVER EACH ROLLING THREE-HOUR PERIOD. COMPLIANCE WITH THIS LIMIT SHALL BE DEMONSTRATED CONTINUOUSLY BASED ON CEMS DATA AND BY SOURCE TESTING, CALCULATED AS THE AVERAGE OF THREE SUBTESTS. THIS LIMIT SHALL NOT APPLY DURING STARTUP AND SHUTDOWN CONDITIONS.

26605

EMISSIONS OF VOLATILE ORGANIC COMPOUNDS (VOCs), CALCULATED AS METHANE, FROM THE TURBINE EXHAUST STACK SHALL NOT EXCEED 2 PARTS PER MILLION VOLUME ON A DRY BASIS (PPMVD) CORRECTED TO 15% OXYGEN. COMPLIANCE WITH THIS LIMIT SHALL BE DEMONSTRATED BY SOURCE TESTING, CALCULATED AS THE AVERAGE OF THREE SUBTESTS. THIS LIMIT SHALL NOT APPLY DURING STARTUP AND SHUTDOWN CONDITIONS.

26606

AMMONIA EMISSIONS SHALL NOT EXCEED 10 PARTS PER MILLION VOLUME ON A DRY BASIS (PPMVD) CORRECTED TO 15% OXYGEN. COMPLIANCE WITH THIS LIMIT SHALL BE DEMONSTRATED BY SOURCE TESTING, CALCULATED AS THE AVERAGE OF THREE SUBTESTS.

26607

OPERATING LOG OR DATA ACQUISITION SYSTEM (DAS) RECORDS SHALL BE MAINTAINED EITHER ON SITE OR AT A DISTRICT-APPROVED ALTERNATE LOCATION TO RECORD ACTUAL TIMES AND DURATIONS OF ALL STARTUPS AND SHUTDOWNS, QUANTITY OF FUEL USED (MONTHLY AND ANNUAL), HOURS OF DAILY OPERATION, AND TOTAL CUMULATIVE HOURS OF OPERATION DURING EACH CALENDAR YEAR.

26608

THE OXIDES OF NITROGEN (NOX) AND OXYGEN (O2) CEMS SHALL BE CERTIFIED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE FEDERAL REGULATIONS INCLUDING THE REQUIREMENTS OF SECTIONS 75.10 AND 75.12 OF TITLE 40, CODE OF FEDERAL REGULATIONS PART 75 (40 CFR 75), THE PERFORMANCE SPECIFICATIONS OF APPENDIX A OF 40 CFR 75, THE QUALITY ASSURANCE PROCEDURES OF APPENDIX B OF 40 CFR 75 AND THE CEMS PROTOCOL APPROVED BY THE DISTRICT. THE CARBON MONOXIDE (CO) CEMS SHALL BE CERTIFIED AND MAINTAINED IN ACCORDANCE WITH 40 CFR 60, APPENDICES B AND F, UNLESS OTHERWISE SPECIFIED IN THIS PERMIT, AND THE CEMS PROTOCOL APPROVED BY THE DISTRICT.

24368

THE CEMS SHALL BE MAINTAINED AND OPERATED, AND REPORTS SUBMITTED, IN ACCORDANCE WITH THE REQUIREMENTS OF RULE 19.2 SECTIONS (D), (E), (F) (1), (F) (2), (F) (3), (F) (4) AND (F) (5), AND A CEMS PROTOCOL APPROVED BY THE AIR POLLUTION CONTROL OFFICER.

26609

THE DISTRICT SHALL BE NOTIFIED AT LEAST TWO WEEKS PRIOR TO ANY CHANGES MADE IN CEMS SOFTWARE THAT AFFECT THE MEASUREMENT, CALCULATION OR CORRECTION OF DATA DISPLAYED AND/OR RECORDED BY THE CEMS.

27992

THE TURBINE SHALL BE EQUIPPED WITH CONTINUOUS MONITORS TO MEASURE, CALCULATE AND RECORD THE FOLLOWING OPERATIONAL CHARACTERISTICS:

- A. HOURS OF OPERATION (HOURS),
- B. NATURAL GAS FLOW RATE (KSCFH),
- C. EXHAUST GAS TEMPERATURE (DEGRESS FAHRENHEIT)
- D. AMMONIA INJECTION RATE (LBS/HR),
- E. RATIO OF AMMONIA INJECTION RATE TO OUTLET NOX MASS EMISSION RATE (LBS NH3 PER LBS NOX), AND
- F. POWER OUTPUT (MW).

THESE MONITORS SHALL BE CALIBRATED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES AND A PROTOCOL APPROVED BY THE DISTRICT. CALIBRATING RECORDS FOR THE CONTINUOUS MONITORS SHALL BE MAINTAINED ON SITE AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.

24615

NON-RESETTABLE TOTALIZING METERS WITH AN ACCURACY OF +/- 5% SHALL BE MAINTAINED IN THE FUEL LINE TO MEASURE THE VOLUMETRIC FLOW RATE CORRECTED FOR TEMPERATURE AND PRESSURE OF THE FUEL. ANY CORRECTION FACTORS SHALL BE MAINTAINED ON SITE AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.

22011

THE AMMONIA INJECTION FLOW RATE SHALL BE CONTINUOUSLY MONITORED, RECORDED AND CONTROLLED. THE FLOWRATE DEVICE SHALL BE CALIBRATED TO AN ACCURACY OF AT LEAST +/-5% ON AN ANNUAL BASIS. RECORDS OF AMMONIA INJECTION RATE (IN POUNDS PER HOUR) AND FLOW RATE DEVICE CALIBRATION SHALL BE MAINTAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

27286

A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND PROPERLY MAINTAINED AND CALIBRATED IN ACCORDANCE WITH AN APPROVED CEMS PROTOCOL TO MEASURE, CALCULATE AND RECORD THE FOLLOWING, IN ACCORDANCE WITH THE APPROVED CEMS PROTOCOL:

- A. HOURLY AVERAGE CONCENTRATION OF OXIDES OF NITROGEN (NOX) CORRECTED TO 15% OXYGEN, IN PARTS PER MILLION (PPM);
- B. HOURLY AVERAGE CONCENTRATION OF CARBON MONOXIDE (CO) CORRECTED TO 15% OXYGEN, IN PARTS PER MILLION (PPM);
- C. PERCENT OXYGEN (O2) IN THE EXHAUST GAS (%);
- D. AVERAGE CONCENTRATION OF OXIDES OF NITROGEN (NOX) FOR EACH CONTINUOUS ROLLING 3-HOUR PERIOD, IN PARTS PER MILLION (PPM);
- E. DAILY MASS EMISSIONS OF OXIDES OF NITROGEN (NOX), IN POUNDS;
- F. MONTHLY MASS EMISSIONS OF OXIDES OF NITROGEN (NOX), IN POUNDS;
- G. ANNUAL MASS EMISSIONS OF OXIDES OF NITROGEN (NOX), IN TONS;
- H. DAILY MASS EMISSION OF CARBON MONOXIDE (CO), IN POUNDS;

27287

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27287

I. MONTHLY MASS EMISSION OF CARBON MONOXIDE (CO), IN POUNDS; AND

J. ANNUAL MASS EMISSION OF CARBON MONOXIDE (CO), IN TONS.

THE CEMS SHALL BE OPERATED IN ACCORDANCE WITH THE APPROVED CEMS MONITORING PROTOCOL AT ALL TIMES WHEN THE TURBINE IS IN OPERATION. A COPY OF THE CEMS MONITORING PROTOCOL SHALL BE MAINTAINED ON SITE AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

27288

WHEN THE CEMS IS NOT RECORDING DATA AND THE TURBINE IS OPERATING, HOURLY NOX EMISSIONS FOR THE ANNUAL EMISSION CALCULATIONS SHALL BE DETERMINED IN ACCORDANCE WITH 40 CFR 75 SUBPART C. ADDITIONALLY, HOURLY CO EMISSIONS FOR THE ANNUAL EMISSION CALCULATIONS SHALL BE DETERMINED USING THE HOURLY EMISSION RATES RECORDED BY THE CEMS DURING THE MOST RECENT HOURS IN WHICH THE TURBINE OPERATED 3 CONTINUOUS HOURS AT NO LESS THAN 80% OF FULL POWER RATING. ALTERNATE HOURLY EMISSION RATES TO BE USED SHALL BE CO EMISSION FACTORS TO BE DETERMINED FROM COMPLIANCE SOURCE TEST EMISSIONS AND FUEL CONSUMPTION DATA, IN TERMS OF POUNDS PER HOUR OF CO FOR THE GAS TURBINE. EMISSION CALCULATIONS USED TO DETERMINE ALTERNATE HOURLY EMISSION RATES SHALL BE REVIEWED AND APPROVED BY THE DISTRICT, IN WRITING, BEFORE THE ALTERNATIVE HOURLY EMISSION RATES ARE INCORPORATED WITH THE CEMS EMISSION DATA.

28009

ANY VIOLATION OF ANY EMISSION STANDARD AS INDICATED BY THE CEMS SHALL BE REPORTED TO THE DISTRICT'S COMPLIANCE DIVISION WITHIN 96 HOURS AFTER SUCH OCCURENCE.

26535

A RELATIVE ACCURACY TEST AUDIT (RATA) AND ALL OTHER REQUIRED CERTIFICATION TESTS SHALL BE PERFORMED AND COMPLETED ON THE CEMS IN ACCORDANCE WITH 40 CFR PART 75 APPENDIX A AND B PERFORMANCE SPECIFICATIONS. AT LEAST 21 DAY PRIOR TO THE TEST DATE, THE PERMITTEE SHALL SUBMIT A TEST PROTOCOL TO THE DISTRICT FOR APPROVAL. ADDITIONALLY, THE DISTRICT SHALL BE NOTIFIED A MINIMUM OF 21 DAYS PRIOR TO THE TEST SO THAT OBSERVERS MAY BE PRESENT. WITHIN 30 DAYS OF COMPLETION OF THIS TEST, A WRITTEN TEST REPORT SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL.

27993

THIS UNIT SHALL BE SOURCE TESTED TO DEMONSTRATE COMPLIANCE WITH THE NOX, CO, VOC, AND AMMONIA EMISSION STANDARDS OF THIS PERMIT, USING DISTRICT APPROVED METHODS. THE SOURCE TEST AND THE NOX AND CO RATA TESTS SHALL BE COMPLETED ONCE EVERY FOUR SUCCESSIVE QA OPERATING QUARTERS (AS DEFINED BY 40 CFR 72.2, AT LEAST 168 OPERATING HOURS). IF THE SOURCE TEST OR RATA TEST HAS NOT BEEN COMPLETED BY THE END OF QA OPERATING QUARTER IN WHICH IT IS DUE, THEN THE TESTS SHALL BE COMPLETED WITHIN A 30-CALENDAR DAY GRACE PERIOD. THE GRACE PERIOD SHALL BEGIN WITH THE FIRST OPERATING HOUR FOLLOWING THE CALENDAR QUARTER IN WHICH THE SOURCE TEST OR RATA TEST WAS DUE.

28322

(CONTINUED FROM ABOVE) A TEST COMPLETED WITH IN A PERIOD OF 30 CALENDAR DAYS AFTER THE END OF A FOURTH SUCCESSIVE OPERATING QUARTER OR EIGHTH SUCCESSIVE CALENDAR QUARTER IN WHICH A TEST IS REQUIRED SHALL BE CONSIDERED TO HAVE OCCURRED IN THAT QUARTER.

27289

THE SOURCE TEST PROTOCOL SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

- A. MEASUREMENTS OF OUTLET OXIDES OF NITROGEN (NOX), CARBON MONOXIDE (CO), AND STACK GAS OXYGEN CONTENT (O2%) SHALL BE CONDUCTED IN ACCORDANCE WITH U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) METHOD 7E AND DISTRICT SOURCE TEST METHOD 100, OR THE AIR RESOURCES BOARD (ARB) TEST METHOD 100, AS APPROVED BY THE EPA;
- B. MEASUREMENT OF OUTLET VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS SHALL BE CONDUCTED IN ACCORDANCE WITH THE SAN DIEGO AIR POLLUTION CONTROL DISTRICT METHODS 25A AND/OR 18;
- C. MEASUREMENTS OF OUTLET AMMONIA SHALL BE CONDUCTED IN ACCORDANCE WITH BAY AREA AIR QUALITY MANAGEMENT DISTRICT (BAAQMD) TEST METHOD ST-1B;
- D. SOURCE TESTING SHALL BE PERFORMED AT NO LESS THAN 80% OF THE TURBINE

RATED LOAD.

26538

WITHIN 30 DAYS AFTER COMPLETION OF THE RENEWAL SOURCE TEST OR RATA, A  
FINAL TEST REPORT SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND  
APPROVAL.

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S\_TEST DATES: 11-Aug-2001 11-Aug-2001 11-Aug-2001 11-Aug-2001 11-Aug-2001

**APPENDIX B. RULE REFERENCE TABLE (LAST UPDATED 3/29/04)**

Rule Citation <sup>1</sup>	Rule Title	A/R <sup>2</sup>	District Adoption Date <sup>3</sup>	SIP FR Approval Date
<b>REGULATION I - GENERAL PROVISIONS</b>				
1	Title	F	04/30/80	09/28/81
2	Definitions	F	06/30/99	02/03/00
4	Review of Rules	F	01/01/70†	09/22/72
5	Authority to Arrest	F	03/24/76†	05/11/77
<b>REGULATION II - PERMITS</b>				
10	Permits Required	F	07/25/95	03/11/98
10.1††	NSPS & NESHAPS Requirements	D	11/8/76	N/A
11	Exemptions	F	09/20/78	07/06/82
11	Exemptions from Rule 10 Permit Requirements	D/F	11/15/00	Pending
12	Registration of Specified Equipment	D	11/15/00	N/A
12.1	Portable Equipment Registration	D	05/21/97	N/A
14	Applications	F	04/30/80	09/28/81
15	Permit Process - Public Notifications	D/F	09/18/90	Pending
17	Cancellation of Applications	F	11/25/81	03/11/98
18	Action on Applications	F	01/17/72	09/22/72
18	Action on Applications	D/F	09/18/90	Pending
19	Provision of Sampling and Testing Facilities	F	04/06/93	03/11/98
19.1††	NSPS & NESHAPS Provision of Sampling and Testing Facilities Requirements	D	11/08/76	N/A
19.2	Continuous Emission Monitoring Requirements	F	12/13/78	09/28/81
19.3	Emission Information	F	5/15/96	03/09/00
20	Standards for Granting Applications	F	01/17/72	09/22/72
20	Standards for Granting Permits	D/F	06/10/86	Pending
20.1	Definitions, Emission Calculations, Emission Offsets and Banking, Exemptions, and Other Requirements	F	07/05/79	04/14/81
20.1	NSR - General Provisions	D/F	11/04/98	Pending
20.2	Standards for Authority to Construct - Best Available Air Pollution Control Technology	F	07/05/79	04/14/81
20.2	NSR - Non-major Stationary Sources	D/F	11/04/98	Pending
20.3	Standards for Authority to Construct - Air Quality Analysis	F	07/05/79	04/14/81
20.3	NSR - Major Stationary Source and PSD Stationary Source	D/F	11/04/98	Pending

1. Rule Citations marked with an “††” contain no substantive requirements and are listed for informational purposes only.
2. ‘A/R’ DENOTES ENFORCEABILITY OF THE LISTED APPLICABLE REQUIREMENT AS FOLLOWS:  
‘F’ Denotes a Federal applicable requirement that is federally enforceable and District enforceable.  
‘D/F’ Denotes a District applicable requirement which is pending SIP approval. When such a rule receives SIP approval, it supersedes the existing SIP rule and becomes the Federal applicable requirement.  
‘D’ Denotes a District only applicable requirement. This may include some state requirements that are enforceable by the District.
3. District adoption dates marked with an “†” are the effective date of the rule, the actual adoption date is uncertain.

20.4	Standards for Authority to Construct - Major Stationary Sources	F	07/05/79	04/14/81
20.4	NSR - Portable Emission Units	D/F	11/04/98	Pending
20.5	Power Plants	F	07/05/79	04/14/81
20.6	Standards for Permit to Operate - Air Quality Analysis	F	07/05/79	04/14/81
20.6	Standards for Permit to Operate Air Quality Analysis	D/F	12/15/87	Pending
20.8	Special Offset Requirement Relating to Banking	D	2/16/83	N/A
21	Permit Conditions	F	11/29/94	03/11/98
22	Denial of Applications	F	01/01/69†	09/22/72
23	Further Information	F	01/01/69†	09/22/72
24	Applications Deemed Denied	F	08/15/70†	09/22/72
24	Applications Deemed Denied	Repealed	03/20/96	Pending
24	Temporary Permit to Operate	D/F	03/20/96	Pending
25	Appeals	F	01/01/69†	09/22/72
25	Appeals	D/F	06/21/00	Pending
26.0	Banking of Emission Reduction Credits (ERCs) - General Requirements	D/F	10/22/97	Pending
26.1	Standards for Granting Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.2	Use of Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.3	Reclassification of Class B Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.4	Permanency of Banked Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.5	Transfer of Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.6	District Banking of Emission Reduction Credits (ERCs)	D/F	10/22/97	Pending
26.7	Shutdown and Related Emission Unit	D/F	10/22/97	Pending
26.8	Banking of Limited Emission Reductions	D/F	10/22/97	Pending
26.9	Emission Reduction Credit Certificates and The Emission Reduction Credit Register	D/F	10/22/97	Pending
26.10	Banking For BRAC Military Base Closure or Realignment Actions	D/F	10/22/97	Pending
27	Banking of Mobile Source Emission Reduction Credits	D/F	11/29/94	Pending
	<b>REGULATIONS III - FEES</b>			
40	Permit Fees	D	8/13/03	N/A
42	Hearing Board Fees	D	06/21/00	N/A
44	Technical Reports, Charges for	D	12/7/83	N/A
	<b>REGULATIONS IV - PROHIBITIONS</b>			
50	Visible Emissions	F	08/13/97	12/7/98
50.1††	NSPS & NESHAPS Visible Emissions Requirements	D	11/08/76	N/A
51	Nuisance	F	01/01/69†	09/22/72
52	Particular Matter	F	01/22/97	12/9/98
52.1††	NSPS & NESHAPS Particular Matter Requirements	D	11/08/76	N/A
53	Specific Contaminants	F	01/22/97	12/9/98
53.1	Scavenger Plants	F	01/01/69†	09/22/72
53.2††	NSPS & NESHAPS Specific Contaminants Requirements	D	11/08/76	N/A
54	Dusts and Fumes	F	01/22/97	12/9/98
54.1	NSPS & NESHAP Dust and Fumes Requirement	D	11/08/76	N/A
58	Incinerator Burning	F	01/17/73†	05/11/77
59	Control of Waste Disposal - Site Emissions	D/F	11/03/87	Pending

59.1	Municipal Solid Waste Landfills	D	06/17/98	N/A
60	Circumvention	F	05/17/94	03/09/00
60.2	Limiting Potential to Emit - Synthetic Minor Sources	D	08/13/03	N/A
61.0	Definitions Pertaining to the Storage & Handling of Organic Compounds	F	10/16/90	09/13/93
61.1	Receiving & Storing Volatile Organic Compounds at Bulk Plants & Bulk Terminals	F	01/10/95	08/08/95
61.2	Transfer of Volatile Organic Compounds into Mobile Transport Tanks	D/F	07/26/00	Pending
61.3	Transfer of Volatile Organic Compounds into Stationary Storage Tanks	F	10/16/90	06/30/93
61.4	Transfer of Volatile Organic Compounds into Vehicle Fuel Tanks	F	10/16/90	05/13/93
61.5	Visible Emission Standards for Vapor Control Systems	F	09/20/78†	04/14/81
61.6	NSPS Requirements for Storage of Volatile Organic Compounds	D/F	01/13/87	Pending
61.7	Spillage and Leakage of Volatile Organic Compounds	F	01/13/87	03/11/98
61.8	Certification Requirements for Vapor Control Equipment	F	01/13/87	03/11/98
62	Sulfur Content of Fuels	F	10/21/81	07/06/82
62.1††	NSPS Requirements for Sulfur Content of Fuels	D	11/08/76	N/A
64	Reduction of Animal Matter	F	07/22/81	07/06/82
66	Organic Solvents	F	07/25/95	08/11/98
67.0	Architectural Coatings	F	05/15/96	03/27/97
67.0	Architectural Coatings	D/F	12/12/01	Pending
67.1	Alternative Emission Control Plans	F	05/15/96	03/27/97
67.2	Dry Cleaning Equipment Using Petroleum - Based Solvent	F	05/15/96	03/27/97
67.3	Metal Parts and Products Coating Operations	F	05/15/96	03/27/97
67.4	Metal Container, Metal Closure and Metal Coil Coating Operations	F	05/15/96	11/03/97
67.5	Paper, Film and Fabric Coating Operations	F	05/15/96	03/27/97
67.6	Solvent Cleaning Operations	F	10/16/90	12/13/94
67.7	Cutback and Emulsified Asphalts	F	05/15/96	03/27/97
67.9	Aerospace Coating Operations	F	04/30/97	08/17/98
67.10	Kelp Processing and Bio-Polymer Manufacturing	F	06/25/97	06/22/98
67.11	Wood Parts and Products Coating Operations	D/F	09/25/02	Pending
67.11.1	Large Coating Operations for Wood Products	F	09/25/03	06/05/03
67.12	Polyester Resin Operations	F	05/15/96	03/27/97
67.15	Pharmaceutical and Cosmetic Manufacturing Operations	F	05/15/96	03/27/97
67.16	Graphic Arts Operations	F	05/15/96	03/27/97
67.17	Storage of Materials Containing Volatile Organic Compounds	F	05/15/96	03/27/97
67.18	Marine Coating Operations	F	05/15/96	03/27/97
67.19	Coating and Printing Inks Manufacturing Operations	F	05/15/96	01/19/00
67.20	Motor Vehicle & Mobile Equipment Refinishing Operations	D	11/13/96	N/A
67.21	Adhesive Material Application Operations	D	12/16/98	N/A
67.22	Expandable Polystyrene Foam Products Manufacturing Operations	D	05/15/96	N/A
67.24	Bakery Ovens	F	05/15/96	03/27/97
68	Fuel-Burning Equipment – Oxides of Nitrogen	F	09/20/94	04/09/96

68.1††	NSPS Requirements for Oxides of Nitrogen from Fuel-Burning Equipment	D	11/08/76	N/A
69	Electrical Generating Steam Boilers, Replacement Units & New Units	D	12/12/95	N/A
69.2	Industrial & Commercial Boilers, Process Heaters & Steam Generators	F	09/27/94	02/09/96
69.3	Stationary Gas Turbine Engines	F	09/27/94	06/17/97
69.3	Stationary Gas Turbine Engines – RACT	D/F	12/16/98	Pending
69.3.1	Stationary Gas Turbine Engines – BARCT	D	12/16/98	N/A
69.4	Stationary Internal Combustion Engines	F	09/27/94	01/22/97
69.4	Stationary Internal Combustion Engines – RACT	D/F	07/30/03	Pending
69.4.1	Stationary Internal Combustion Engines - BARCT	D	11/15/00	N/A
69.5	Natural Gas-Fired Water Heaters	D	06/17/98	N/A
69.6	Natural Gas-Fired Fan-Type Central Furnaces	D	06/17/98	N/A
70	Orchard Heaters	F	01/17/72	09/22/72
71	Abrasive Blasting	F	03/30/77	08/31/78
	<b>REGULATION V - PROCEDURES BEFORE THE HEARING BOARD</b>			
75	Procedure Before the Hearing Board	D/F	09/17/85	Pending
75.1††	NSPS & NESHAPS Variance Procedures	D	09/17/85	7/30/79
97	Emergency Variance	D/F	07/25/95	Pending
98	Breakdown Conditions: Emergency Variance	D/F	07/25/95	Pending
	<b>REGULATION VI - BURNING CONTROL</b>			
101	Burning Control	F	09/25/02	04/30/03
	<b>REGULATION VII - VALIDITY AND EFFECTIVE DATE</b>			
140	Validity	F	01/01/69†	09/22/72
141	Effective Date	F	01/01/69†	09/22/72

<b>REGULATION VIII - SAN DIEGO AIR POLLUTION EMERGENCY PLAN</b>				
126	Applicability	F	05/25/77	08/31/78
127	Episode Criteria Levels	F	09/17/91	03/18/99
128	Episode Declaration	F	09/17/91	03/18/99
129	Episode Termination	F	05/25/77	08/31/78
130	Episode Actions	F	09/17/91	03/18/99
131	Stationary Source Curtailment Plan	F	04/01/81	06/21/82
132	Traffic Abatement Plan	F	04/01/81	06/21/82
132	Traffic Abatement Plan	D/F	12/17/97	Pending
133	Schools	F	05/25/77	08/31/78
134	Source Inspection	F	04/01/81	06/21/82
135	Air Monitoring Stations	F	05/25/77	08/31/78
136	Interdistrict and Interbasin Coordination	F	05/25/77	08/31/78
137	Emergency Action Committee	F	05/25/77	08/31/78
138	Procedures and Plans	F	05/25/77	08/31/78
	APPENDIX A - Persons to be Notified on Episode Declaration	F		
<b>REGULATION IX - PUBLIC RECORDS</b>				
175	General	F	05/22/74†	05/11/77
176	Information Supplied to District	F	05/22/74†	05/11/77
177	Inspection of Public Records	F	03/30/77	08/31/78
177	Inspection of Public Records	D/F	06/20/01	Pending
<b>REGULATION XII - TOXIC AIR CONTAMINANTS</b>				
1200	Toxic Air Contaminants - New Source Review	D	06/12/96	N/A
1202	Hexavalent Chromium - Cooling Towers	D	07/25/95	N/A
1203	Ethylene Oxide Sterilizers and Aerators	D	07/26/00	N/A
1205	Control of Dioxins Emissions from Medical Waste Incinerators	D	01/01/94	N/A
1210	Toxic Air Contaminant Public Health Risks - Public Notification and Risk Reduction	D	06/12/96	N/A

<b>REGULATION XIV - TITLE V OPERATING PERMITS</b>				
1401	General Provisions	F	05/23/01	02/27/04
1410	Permit Required	F	05/23/01	02/27/04
1411	Exemption from Permit to Operate for Insignificant Units	F	01/18/94	11/30/01
1412	Federal Acid Rain Program Requirements	F	01/18/94	11/30/01
1413	Early Reduction of Hazardous Air Pollutants	F	03/07/95	11/30/01
1414	Applications	F	03/07/95	11/30/01
1415	Permit Process-Public Notification	F	05/23/01	02/27/04
1417	Pendency & Cancellation of Applications	F	03/07/95	11/30/01
1418	Action on Applications	F	03/07/95	11/30/01
1419	Provisions of Sampling & Testing Facilities & Emission Information	F	03/07/95	11/30/01
1420	Standards for Granting Permits	F	03/07/95	11/30/01
1421	Permit Conditions	F	03/07/95	02/27/04
1422	Denial or Cancellation Of Applications	F	03/07/95	11/30/01
1423	Further Information	F	01/18/94	11/30/01
1424	Applications Deemed Denied	F	01/18/94	11/30/01
1425	Appeals & Judicial Review	F	03/07/95	02/27/04
	APPENDIX A - Insignificant Units	F	01/18/94	11/30/01
	APPENDIX A - Insignificant Units	F	05/23/01	11/30/01
<b>REGULATION XV - FEDERAL CONFORMITY</b>				
1501	Conformity of General Federal Actions	F	03/07/95	04/23/99

The following NSPS and NESHAP have been adopted locally by the SDCAPCD. EPA has granted the District delegation for each of these rules, therefore these rules, as adopted by the District are the federally applicable requirements. For all other NSPS and NESHAP, the versions cited in the CFR are the federally applicable requirements.

Subpart & Citation	Rule Title	District Adoption Date	Federal Delegation Date
<b>Part 60 REGULATION X - STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES</b>			
A	General Provisions	original unknown 08/07/80* 01/13/87 03/27/90 11/03/92	11/08/76
D	Standards of Performance for Fossil Fuel-Fired Steam Generators	original unknown 09/17/77* 06/16/78* 01/12/79* 08/07/80*	11/08/76
Da	Standards of Performance for Electric Utility Steam Generating Units Constructed After September 18, 1978	original unknown	05/24/82
Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating	12/15/87 03/14/89 09/21/93	07/18/89
E	Standards of Performance for Incinerators	Original unknown	03/30/77
I	Standards of Performance for Asphalt Concrete Plants	original unknown 01/13/87	11/08/76
K	Standards of Performance for Storage Vessels for Petroleum Liquids Construct After June 11, 1973 and Prior to May 19, 1978	original unknown 05/01/81* 03/14/89*	11/08/76
Ka	Standards of Performance for Storage Vessels for Petroleum Liquids Construction after May 18, 1978	03/04/82 03/14/89*	05/24/82
Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	03/14/89 10/16/90	07/18/89
L	Standards of Performance for Secondary Lead Smelters	original unknown	11/08/76
M	Standards of Performance for Secondary Brass and Bronze Ingot Production Plants	original unknown 09/17/85*	03/30/77
O	Standards of Performance for Sewage Treatment Plants	01/13/87	09/17/87
DD	Standards of Performance for Grain Elevators	original unknown	05/24/82
EE	Standards of Performance for Surface Coating Metal Furniture	03/04/86 11/03/92	03/19/87
GG	Standards of Performance for Stationary Gas Turbines	original unknown 11/24/82*	05/24/82

The following ATCM and NESHAP have not been adopted by the SDCAPCD, but are being implemented and enforced by the District as ATCM's.

Subpart & Citation	Rule Title	A/R <sup>2</sup>	Most Recent Adoption Date	
<b>APPENDIX A - CALIFORNIA AIRBORNE TOXIC CONTROL MEASURES (ATCM)</b>				
17 CCR § 93102	Hexavalent Chromium ATCM for Chrome Plating & Chromic Acid Anodizing Operations	F	05/21/98	
17 CCR § 93109	ATCM For Emissions of Perchloroethylene From Dry Cleaning Operations	F	10/14/93	
17 CCR § 93105	ATCM for Construction, Grading, Quarrying, and Surface Mining Operations	D	07/26/01	
17 CCR § 93106	Asbestos ATCM for Surface Applications	D	07/20/00	
17 CCR § 93107	ATCM For Emissions of Toxic Metals From Non-Ferrous Metal Melting	D	01/14/93	
17 CCR § 93108.5	Ethylene Oxide ATCM -- Sterilizers and Aerators	D	05/21/98	
17 CCR § 93111	ATCM for Emissions of Chlorinated Toxic Air Contaminants from Automotive Maintenance & Repair Activities	D	04/27/00	
17 CCR § 93112	ATCM for Emissions of Hexavalent Chromium and Cadmium from Motor Vehicle and Motor Equipment Coatings	D	09/20/01	
17 CCR § 93113	ATCM to Reduce Emissions of Toxic Air Contaminants from Outdoor Residential Waste Burning	D	02/03/03	
<b>Part 63 Subpart</b>	<b>APPENDIX B - NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR SOURCE CATEGORIES</b>			
	A	General Provisions	F	05/30/03
	R	Gasoline Distribution	F	12/19/03
	T	Halogenated Solvent Cleaning	F	09/08/00
	DD	Off-site Waste & Recovery Operations	F	07/20/99
	GG	Aerospace Manufacturing and Rework Facilities	F	12/08/00
	II	Shipbuilding and Ship Repair (Surface Coating)	F	12/15/95
	JJ	Wood Furniture Manufacturing Operations	F	12/28/98
	AAAA	Municipal Solid Waste Landfills	F	01/16/03

The following NSPS have been adopted by the SDCAPCD by reference. The rules listed below are the CFR versions of these rules which are federally applicable requirements.

Subpart & Citation	Rule Title	Latest EPA Promulgation Date	District Adoption Date	Delegation Date
<b>Part 60 APPENDIX C - STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES (NSPS)</b>				
D	Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971	10/17/00	11/01/01	Pending
Da	Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978	06/11/01	10/17/01	Pending
Db	Standards of Performance for Industrial-Commercial - Institutional Steam Generating Units	10/01/01	04/25/01	Pending
Dc	Standards of Performance for Small Industrial-Commercial -Institutional Steam Generating Units	05/08/96	08/13/97	06/24/98
GG	Standards of Performance for Stationary Gas Turbines	06/27/89	10/17/01	Pending
AAA	Standards of Performance for New Residential Wood Heaters	06/12/99	04/12/00	Pending
OOO	Standards of Performance for Nonmetallic Mineral Processing Plants	06/09/97	04/28/99	05/28/02
UUU	Standards of Performance for Calciners and Dryers in Mineral Industries	07/29/93	11/17/99	05/28/02
WWW	Standards of Performance for Municipal Solid Waste Landfills	04/10/00	08/13/97	06/24/98

## APPENDIX C. ABBREVIATIONS

### LIST OF ABBREVIATIONS USED IN THIS PERMIT

APCO	Air Pollution Control Officer
ASTM	American Society for Testing and Methods
BAAQMD	Bay Area Air Quality Management District
BACT	Best Available Control Technology
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
District	San Diego County Air Pollution Control District
EF	Emission Factor
EPA	US Environmental Protection Agency
fCAA	federal Clean Air Act
HAP	Hazardous Air Pollutant
I&M	Inspection and Maintenance
MINOR NSR	New Source Review (State-only program requirement)
NESHAP	National Emission Standard for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NSR	New Source Review (Federal program requirement)
NO <sub>x</sub>	Oxides of nitrogen
O <sub>2</sub>	Oxygen
OES	Office of Emergency Services
O&M	Operation and maintenance
Pb	Lead
PM	Total Particulate Matter
PM <sub>10</sub>	Particulate matter with aerodynamic equivalent diameter of ≤ 10 microns
PSD	Prevention of Significant Deterioration
RMP	Risk Management Plan
SDCAPCD	San Diego County Air Pollution Control District
SIP	State Implementation Plan
SO <sub>x</sub>	Oxides of sulfur
Title IV	Title IV of the federal Clean Air Act
Title V	Title V of the federal Clean Air Act
VOC	Volatile Organic Compound

#### Units of Measure:

dscf	=	Dry standard cubic foot
g	=	grams
gal	=	gallon
gr/dscf	=	Grains per dry standard cubic foot
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
min	=	minute
MM Btu	=	Million British thermal units
psia	=	pounds per square inch, absolute
scf	=	Standard cubic foot
scfm	=	standard cubic feet per minute
yr	=	year

# APPENDIX D: TITLE IV PERMIT

## Acid Rain Permit (Title IV)

**Issued to:** MMC Energy North America LLC  
**Operated by:** MMC Chula Vista LLC  
**ORIS Code:** 55540  
**Effective:** April 12, 2005 through April 12, 2010

### 1) Statement of Basis

Statutory and Regulatory Authorities: In accordance with District Regulation XIV and Titles IV and V of the federal Clean Air Act, the San Diego County Air Pollution Control District issues this permit pursuant to Regulation XIV.

### 2) SO<sub>2</sub> Allowance Allocations for Each Affected Unit

If the number of allowances allocated to a Phase II unit identified below is revised by EPA, this permit does not need to be reopened to revise the unit SO<sub>2</sub> allowance allocations.

		2004	2005	2006	2007	2008	2009
Permit No. 976039	SO <sub>2</sub> annual allowances (tons) pursuant to 40 CFR part 73	Xi	Xi	Xi	Xi	Xi	Xi

ith year

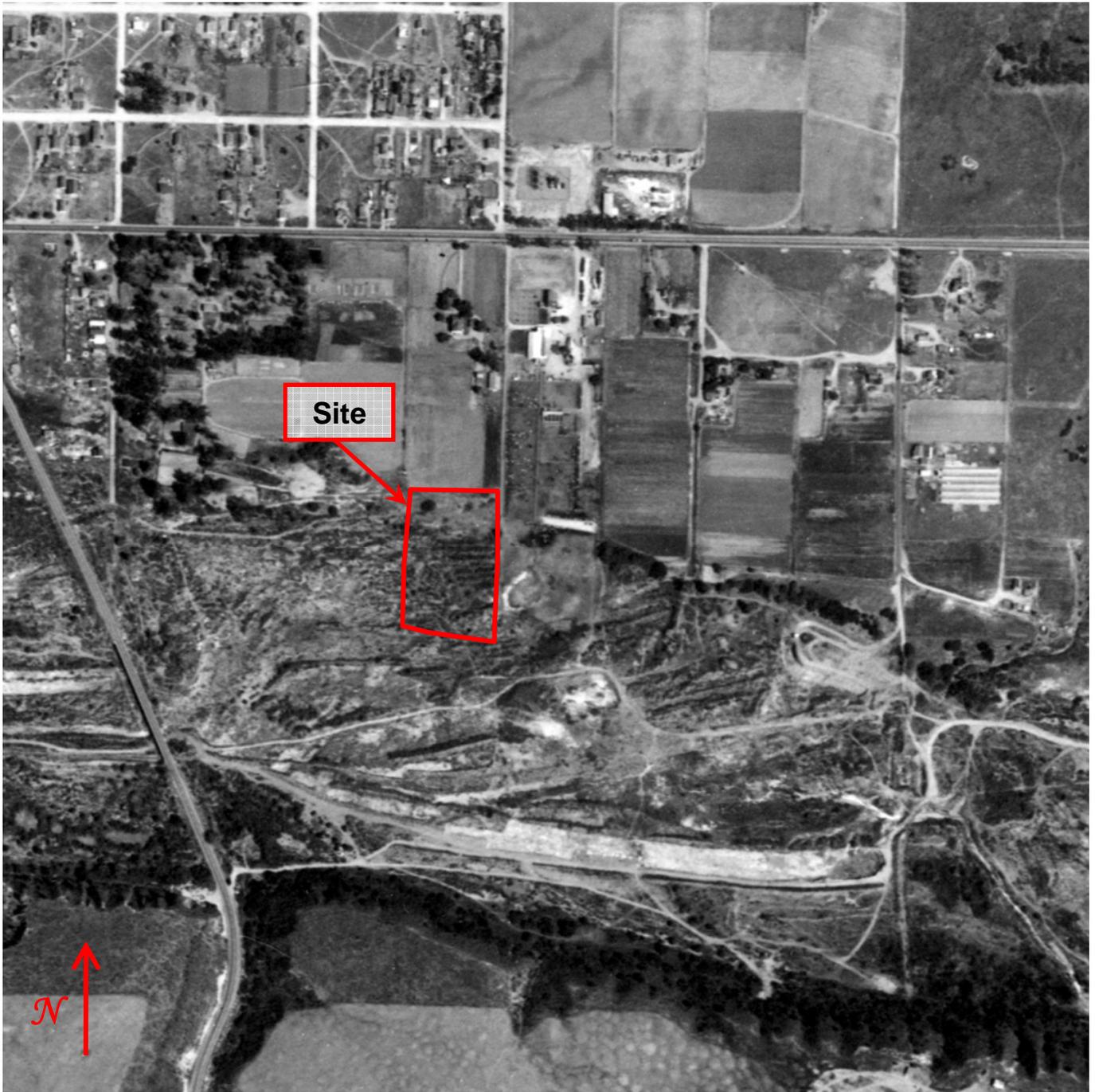
### 3) Comments, Notes and Justifications

No NO<sub>x</sub> limit was included in Section 2 because none of the units are affected units subject to 40 CFR part 76.

Richard J. Smith  
Air Pollution Control Officer  
San Diego County Air Pollution Control District  
San Diego, CA 92131  
(858) 586-2600  
(858) 586-2601 - Fax

**APPENDIX G**  
**HISTORICAL AERIAL PHOTOGRAPHS**

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**ADVANTAGE**  
**ENVIRONMENTAL**  
**CONSULTANTS, LLC.**

810 Los Vallecitos Boulevard, Suite 210  
San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

1953 Aerial Photograph  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

Drawn By:  
DAW



**ADVANTAGE**  
**ENVIRONMENTAL**  
**CONSULTANTS, LLC.**

810 Los Vallecitos Boulevard, Suite 210  
San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

1963 Aerial Photograph  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

Drawn By:  
DAW



**ADVANTAGE**  
**ENVIRONMENTAL**  
**CONSULTANTS, LLC.**

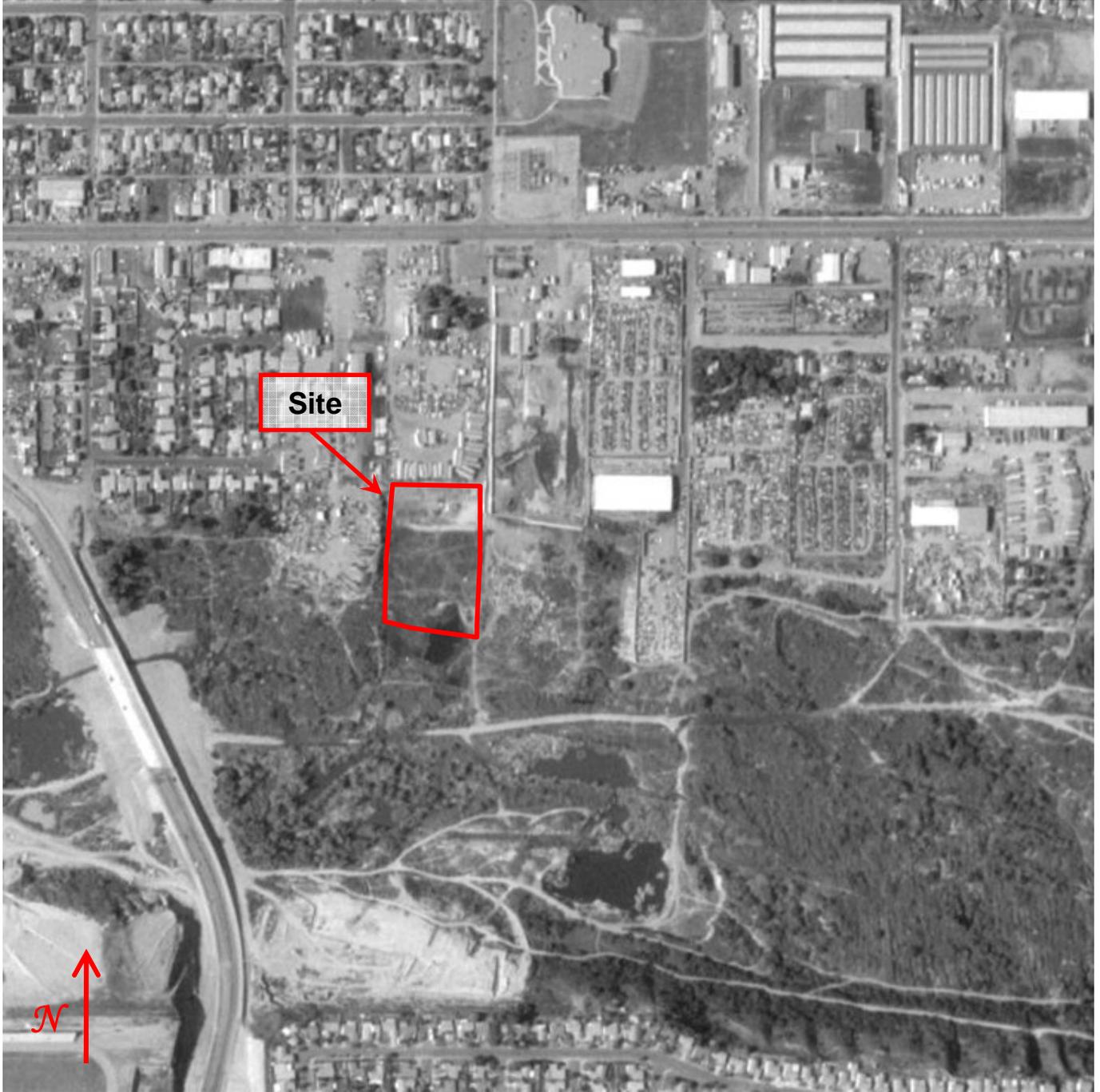
810 Los Vallecitos Boulevard, Suite 210  
San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

1974 Aerial Photograph  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

Drawn By:  
DAW



**ADVANTAGE**  
**ENVIRONMENTAL**  
**CONSULTANTS, LLC.**

810 Los Vallecitos Boulevard, Suite 210  
San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

1980 Aerial Photograph  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

Drawn By:  
DAW



**ADVANTAGE**  
**ENVIRONMENTAL**  
**CONSULTANTS, LLC.**

810 Los Vallecitos Boulevard, Suite 210  
San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

1990 Aerial Photograph  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

Drawn By:  
DAW



**ADVANTAGE**  
**ENVIRONMENTAL**  
**CONSULTANTS, LLC.**

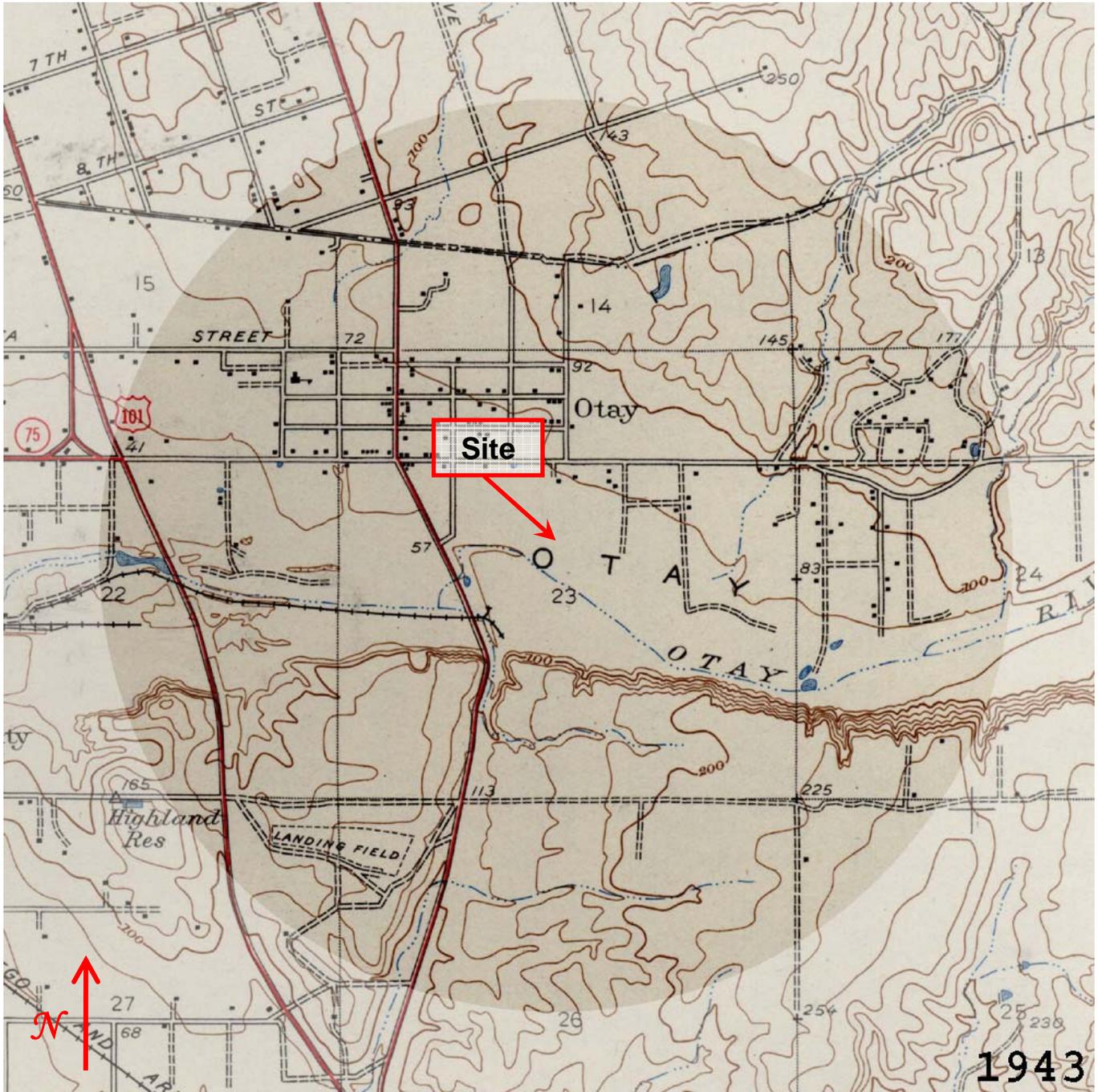
810 Los Vallecitos Boulevard, Suite 210  
San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

2002 Aerial Photograph  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.: 06-018A-SD	Report Date: November 2006	Drawn By: DAW
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**APPENDIX H**  
**HISTORICAL TOPOGRAPHIC MAPS**

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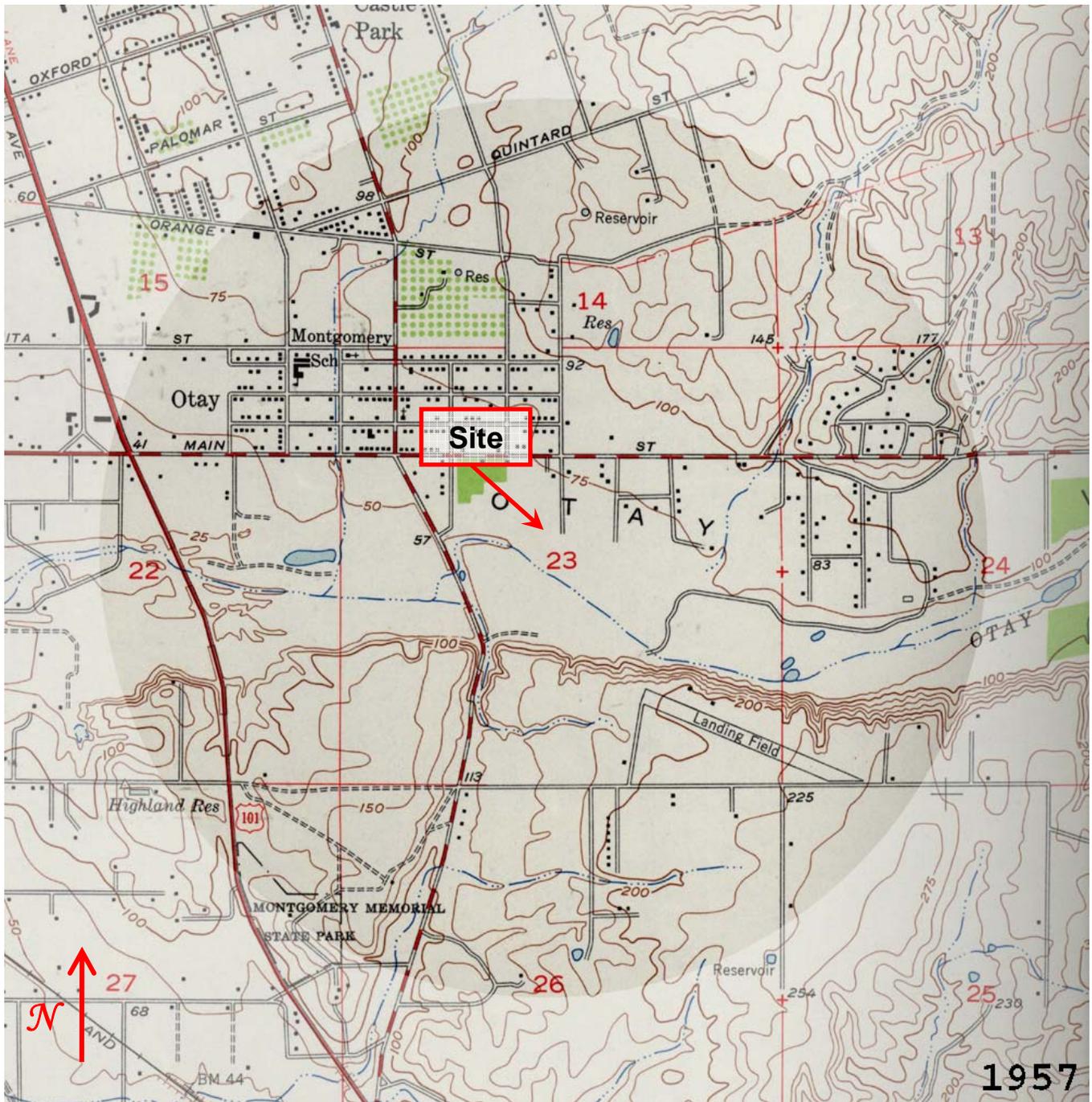


**ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC.**

810 Los Vallecitos Boulevard, Suite 210  
 San Marcos, CA 92069  
 Phone: 760-744-3363 Fax 760-744-3383

1943 Topographic Map  
 Power Generating Plant  
 3497 Main Street  
 Chula Vista, California

Work Order No.: 06-018A-SD	Report Date: November 2006	Drawn By: DAW
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**ADVANTAGE  
ENVIRONMENTAL  
CONSULTANTS, LLC.**

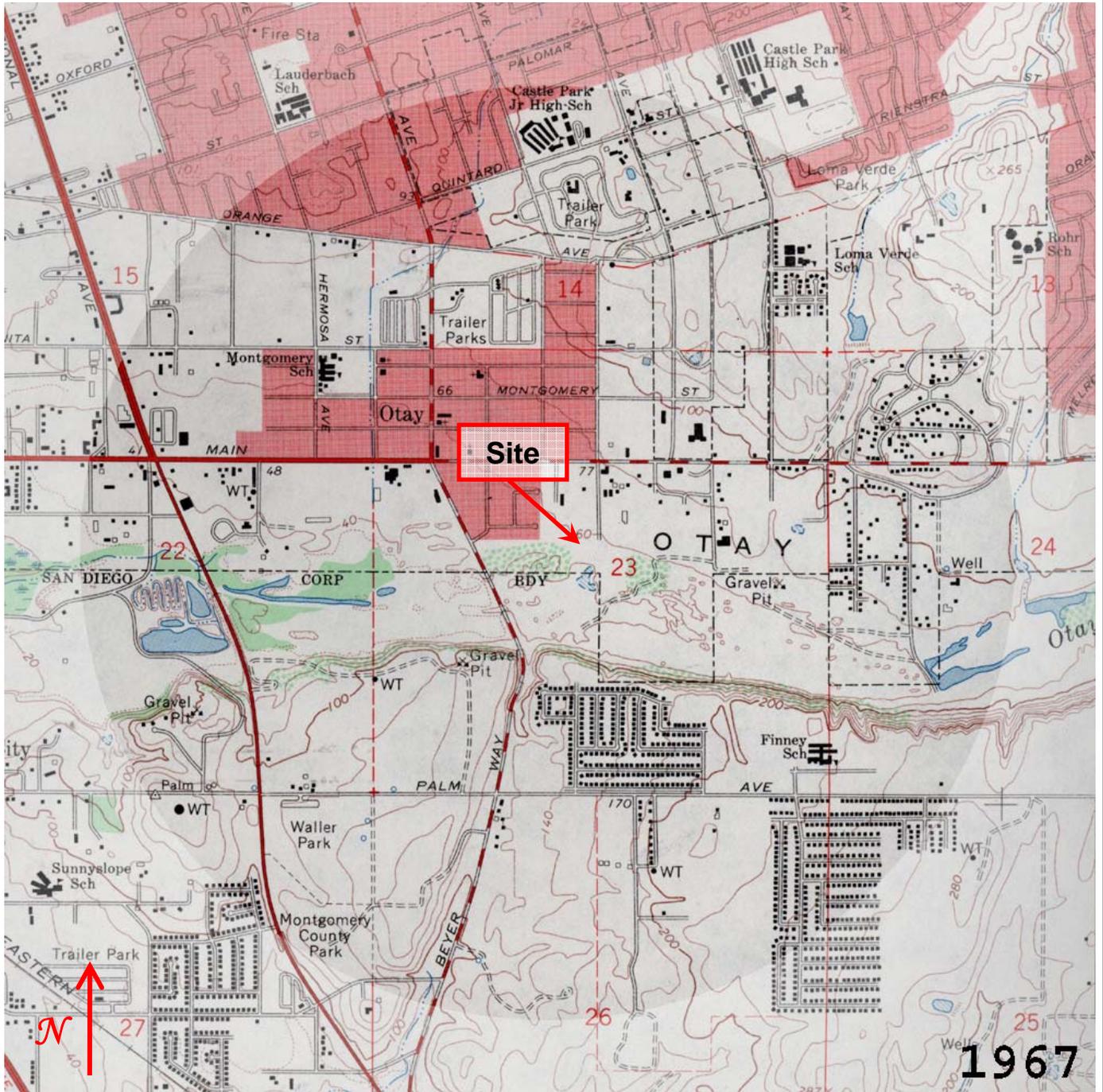
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San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

1957 Topographic Map  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

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DAW



**ADVANTAGE  
ENVIRONMENTAL  
CONSULTANTS, LLC.**

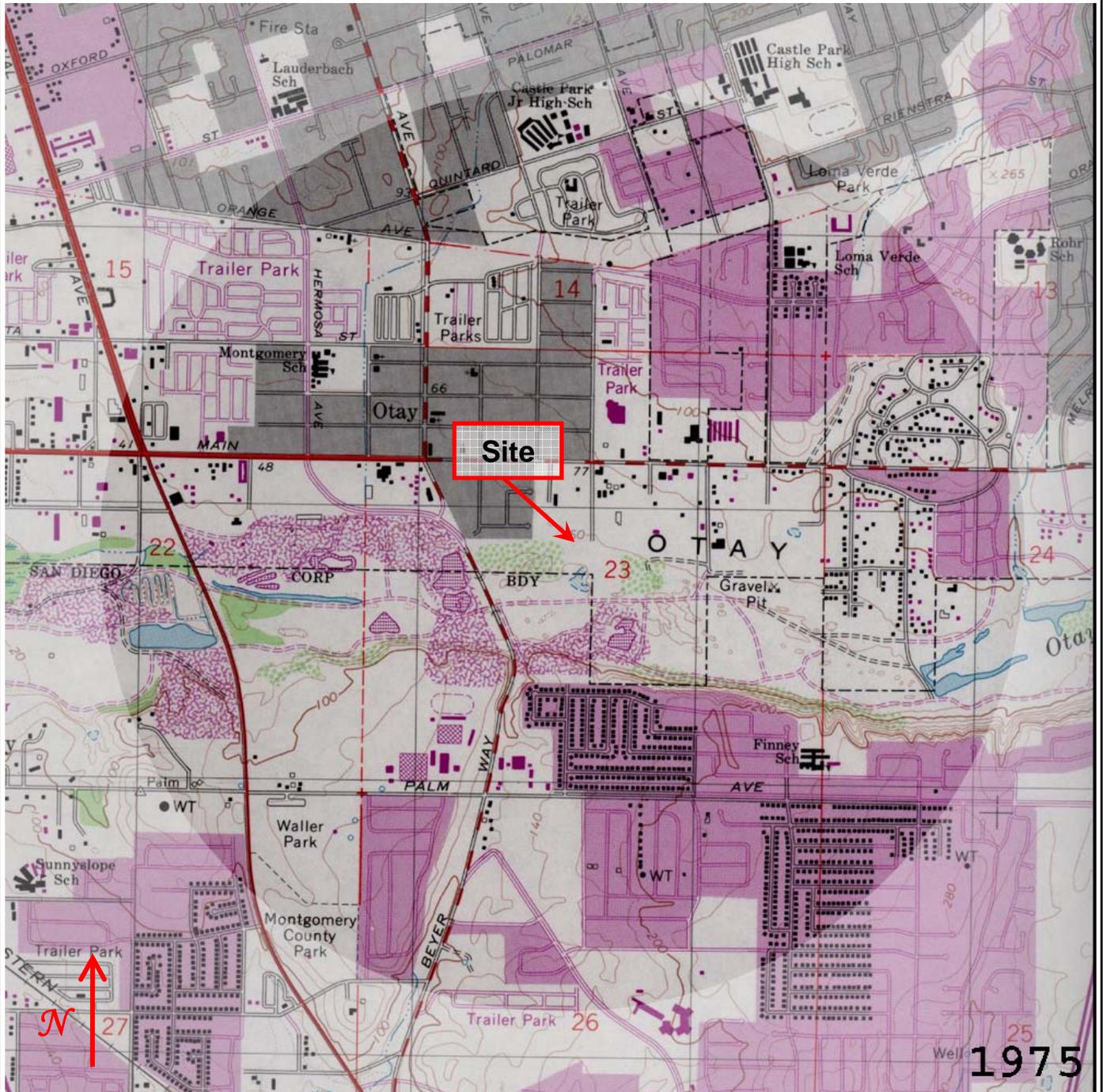
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San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

1967 Topographic Map  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

Drawn By:  
DAW



**ADVANTAGE  
ENVIRONMENTAL  
CONSULTANTS, LLC.**

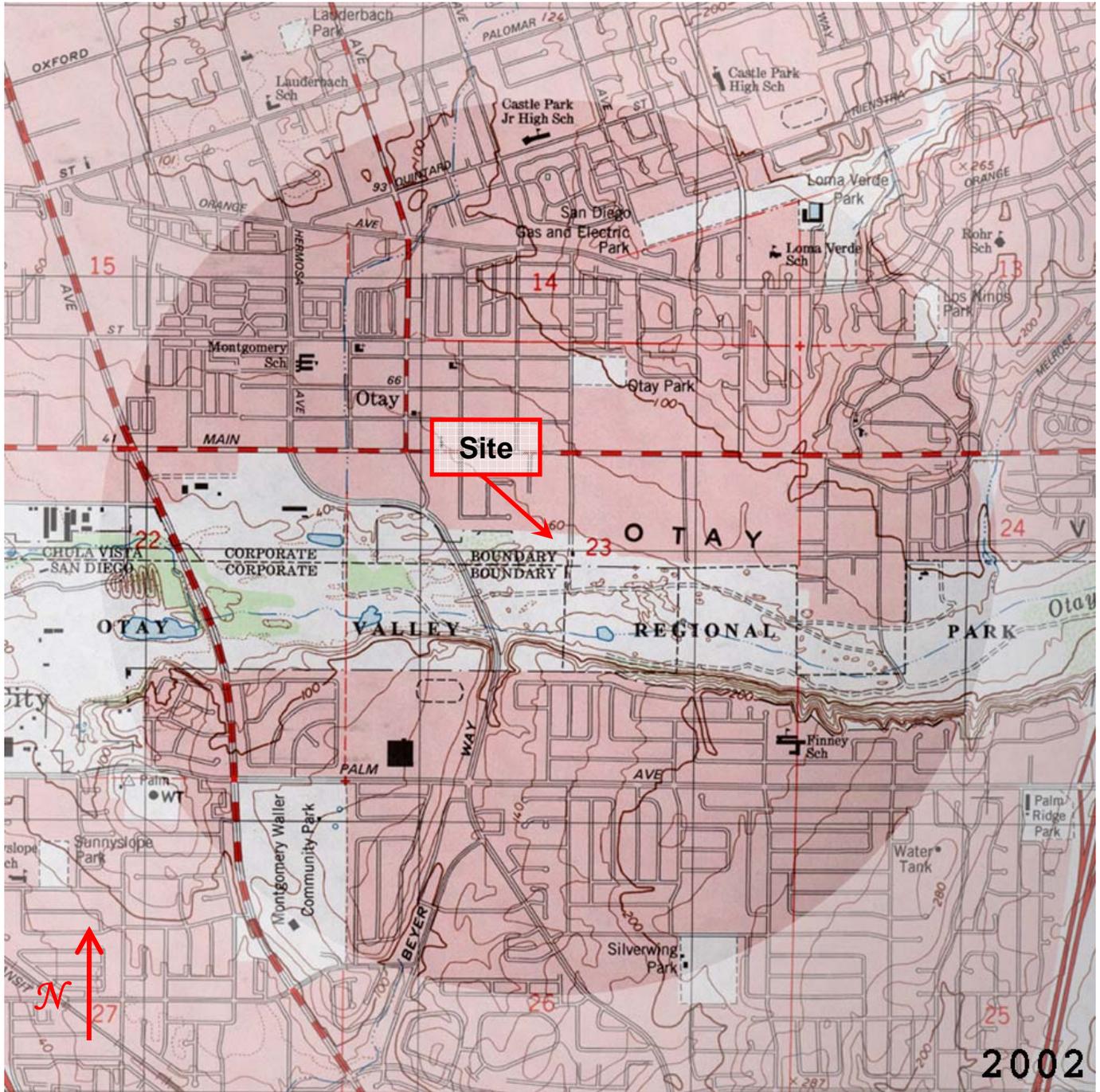
810 Los Vallecitos Boulevard, Suite 210  
San Marcos, CA 92069  
Phone: 760-744-3363 Fax 760-744-3383

1975 Topographic Map  
Power Generating Plant  
3497 Main Street  
Chula Vista, California

Work Order No.:  
06-018A-SD

Report Date:  
November 2006

Drawn By:  
DAW



**ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC.**

810 Los Vallecitos Boulevard, Suite 210  
 San Marcos, CA 92069  
 Phone: 760-744-3363 Fax 760-744-3383

2002 Topographic Map  
 Power Generating Plant  
 3497 Main Street  
 Chula Vista, California

Work Order No.:  
 06-018A-SD

Report Date:  
 November 2006

Drawn By:  
 DAW

**APPENDIX I**  
**SITE PHOTOGRAPHS**

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PHASE I ENVIRONMENTAL SITE ASSESSMENT  
Power Generating Plant – 3497 Main Street  
Chula Vista, California 91911

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Photo #1: View of the Site from the north.



Photo #2: Staging area in the southern portion of the Site.

PHASE I ENVIRONMENTAL SITE ASSESSMENT  
Power Generating Plant – 3497 Main Street  
Chula Vista, California 91911

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Photo #3: Ammonium hydroxide AST in the southern portion of the Site.



Photo #4: Oil storage system. Portions of the system below grade within a concrete vault are covered with metal plates.

PHASE I ENVIRONMENTAL SITE ASSESSMENT  
Power Generating Plant – 3497 Main Street  
Chula Vista, California 91911

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Photo #5: Typical oil piping within a concrete-lined trench.



Photo #6: 55-gallon drums and other smaller containers of oil products and absorbent.

PHASE I ENVIRONMENTAL SITE ASSESSMENT  
Power Generating Plant – 3497 Main Street  
Chula Vista, California 91911

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Photo #7: Retail-sized containers of general maintenance and cleaning products.



Photo #8: Cylinders of inert gases in the western portion of the Site.

PHASE I ENVIRONMENTAL SITE ASSESSMENT  
Power Generating Plant – 3497 Main Street  
Chula Vista, California 91911

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Photo #9: Subsurface holding pond (concrete lined) in the western portion of the Site.



Photo #10: Northern adjacent property (3487 Main Street).

PHASE I ENVIRONMENTAL SITE ASSESSMENT  
Power Generating Plant – 3497 Main Street  
Chula Vista, California 91911

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Photo #11: Eastern adjacent property (graded lots with concrete slabs).



Photo #12: Western adjacent commercial building.

**APPENDIX J**  
**QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS**

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# Advantage Environmental Consultants, LLC

ENVIRONMENTAL DUE DILIGENCE SPECIALISTS

**Daniel A. Weis**  
**Branch Manager**  
**San Marcos, California**

## EDUCATION

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B.A. University of Delaware, Newark, DE (1995)  
M.S. Public/Environmental Health, San Diego State University, San Diego, CA (1998)

## PROFESSIONAL REGISTRATIONS, LICENSES, AND CERTIFICATIONS

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- Registered Environmental Assessor #08001 in the State of California
- OSHA 40-hour Hazardous Waste Operations Worker and Supervisor Certifications and annual Refreshers

## PROFESSIONAL SUMMARY

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Mr. Weis is the branch manager of AEC's southern California office based in the City of San Marcos, northern San Diego County. Mr. Weis has nearly 10 years of experience in the environmental sciences and consulting fields. He has completed hundreds of projects of varying scope including Phase I and Phase II Environmental Site Assessments, soil and groundwater investigations, health risk assessments, underground storage tank evaluation/closure, remediation projects, hazardous waste characterization/management, electromagnetic field surveys, radionuclide surveys, indoor air quality investigations, and mold surveys. Assets audited include industrial, commercial, residential, and vacant land sites throughout the State of California. As branch manager, Mr. Weis is responsible for client development/management, project management and technical-related tasks of projects.

## PROFESSIONAL EXPERIENCE

---

**Corridor Assessment** - Completed a Phase I ESA of a 13-mile corridor for a proposed sewer alignment within public right-of-ways and on private agricultural property near the U.S./Mexico border. The study included extensive regulatory file reviews due to the presence of several landfills, industrial facilities and gasoline stations along the corridor. Soil and groundwater within portions of the alignment were impacted with petroleum hydrocarbons from adjacent underground storage tank releases. In addition, potential areas of burn ash and other industrial waste containing heavy metals were identified in portions of the alignment based on prior subsurface investigations conducted for the adjacent landfills. Information from the

assessment was used to develop subsurface site investigation workplans in areas requiring further assessment.

***Urban Redevelopment Projects*** - Performed initial site assessments, subsurface investigations, human health risk assessments, financial/cost analysis and implementation of remedial action programs at numerous urban redevelopment sites in downtown San Diego and nearby communities. Such initial assessments include extensive historical and regulatory research for proper evaluation of a site in question. Subsurface activities performed include the completion of soil borings using various drilling technologies, soil and groundwater sampling, installation and sampling of groundwater monitoring wells, free product evaluations exploratory trenching and real-time delineation using mobile analytical laboratories and other soil screening technology. Cost effective solutions and various remedial action options are provided prior to remedial action implementation. Has performed such assessments on behalf of private developers, redevelopment agencies and environmental attorneys. Many of the projects have been subject to regulatory oversight by local or State level regulatory agencies.

***Agricultural and Conservation Related Projects*** - Conducted numerous Phase I and Phase II (as-needed) environmental site assessments at active and inactive agricultural properties and land targeted for rural and urban conservation related projects throughout the State of California. Some of the subsurface investigations conducted on the agricultural and urban conservation related projects revealed elevated levels of agricultural chemicals (particularly organochlorine pesticides), petroleum hydrocarbons and other contaminants of concern. To address such concerns, remedial strategies and costs were evaluated and carried out with as-needed regulatory oversight. Such strategies included waste characterization, remedial excavation and off-site disposal, on-site treatment or other mitigation measures deemed more economical than disposal at an off-site facility.

***Tijuana River Watershed Project*** - In early stages of the project, implemented a stormwater sampling program within various areas of watershed including the use of auto sampling apparatus triggered by rainfall and flow of rivers and creeks of interest. Performed analytical laboratory analysis of water and sediment samples for constituents of concern including heavy metals, nutrients, and bacteriological indicators and maintained chemistry and flow databases for the development of pollutographs, mass loading estimates, and calibration of GIS models. Publications generated from this research and program include: Gersberg, R.M., Pitt, J.L., Weis, D.A., and D.D. Yorkey. Characterizing In-Stream Metal Loading in the Tijuana River Watershed. (2002). National TMDL Science and Policy Conference, Specialty Conference Proceeding on CD Rom, November 13-16, Phoenix, Arizona. Weis, D.A., Callaway, J.C., and R.M. Gersberg (2001). Vertical Accretion Rates and Heavy Metal Chronologies in Wetland Sediments of the Tijuana Estuary. *Estuaries* 24(6A). Gersberg, R.M., Brown, C., Zambrano, V., Worthington, K., and D.A. Weis. (2000). Quality of Urban Runoff in the Tijuana River Watershed. Monograph Series on Water Issues Along the United States and Mexico Border (P. Westerhoff, Ed.) Southwest Center for Environmental Research and Policy.

**Advantage Environmental Consultants, LLC**  
ENVIRONMENTAL DUE DILIGENCE SPECIALISTS

**Jeffery Stein, P.G.**  
**Principal**

**EDUCATION**

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B.S. Geosciences, Virginia Tech, 1987

**PROFESSIONAL  
REGISTRATIONS, LICENSES, AND CERTIFICATIONS**

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- Registered Professional Geologist, State of Delaware, 1996
- Registered Professional Geologist, Commonwealth of Virginia, 1995
- Registered Professional Geologist, Commonwealth of Kentucky, 1994
- 40-Hour OSHA Hazardous Waste Site Worker Training
- 8-Hour OSHA Annual Refresher Training
- 8-Hour OSHA Site Supervisor Training
- 8-Hour Confined Space Training
- The Environmental Institute 24-hour Mold Assessment and Remediation in Buildings

**PROFESSIONAL  
SUMMARY**

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Mr. Stein has 16 years experience in the field of remedial investigation and implementation. Conducted feasibility studies of technologies for remediation of contaminated media at Superfund and LUST sites and prepared, evaluated and performed treatability testing of remedial technologies. Prepared detailed design plans, equipment specifications, and construction drawings for remedial actions. Prepared Corrective Action Plans for LUST sites including evaluation of soil and groundwater remediation options. Obtained permits for discharge of treated groundwater, discharge of air contaminants, and permits for construction. Installed, operated, optimized and maintained treatment systems.

**PROFESSIONAL  
EXPERIENCE**

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Subsurface Investigation, Remedial Design and Implementation at Bulk Storage Terminal, Fredericksburg, VA - Supervised a hydrogeologic assessment and emergency remedial response under the direction of the EPA for an extensive Liquid Phase Hydrocarbon (LPH) plume. Emergency response activities included design and construction of an underflow dam, extensive stormwater piping network, and realignment and lining of 1000 feet of stream bed. Performed pilot studies including groundwater pumping tests, air sparging and soil vapor extraction studies. Used data to design and build three independent total fluids and vapor extraction systems.

**PROFESSIONAL  
EXPERIENCE (continued)**

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Subsurface Investigation and Existing Remediation System Evaluation at bulk Storage Terminal in Fairfax, VA, Project Manager - Participated in a study of the effectiveness of a large-scale interceptor trench in response to a request from state and federal regulatory authorities following a perceived liquid-phase hydrocarbon underflow of a trench section. Assisted with an analysis and review of trench operating parameters and local hydrogeology to determine that the trench was operating effectively.

Environmental Litigation Support, Silver Spring, MD, Project Manager - Served as Project Manager for an investigation involving a petroleum retail fueling station owner and a major oil company. Work included detailed hydrogeologic and chemical analysis interpretation and the management of fuel fingerprinting services. Mr. Stein developed an expert opinion which assisted in compelling the major oil company to take responsibility for the clean up of an extensive liquid phase hydrocarbon plume.

Environmental Litigation Support, Baltimore, MD, Project Manager - Served as Project Manager for litigation support involving the defense of a responsible party associated with a federal superfund site. Work included the performance of various field services including conducting test pits, soil, sediment and surface water sampling, observing other parties perform field work and assisting in the preparation of position and negotiation papers.

CERCLA Feasibility Study, Michaelsville Landfill, Aberdeen Proving Ground, MD - Developed remedial alternatives for clean-up of heavy metal chlorinated hydrocarbon impacted groundwater associated with a closed landfill. Work was performed under the direction of the Hazardous Waste Remedial Action Program (HAZWRAP).

Environmental Assessment for Voluntary Clean Up Program, Columbia, MD, Project Manager - Served as Project Manager for the assessment and evaluation of environmental liability as part of property transaction of a 10 acre industrial property in Columbia, Maryland. The site was impacted with chlorinated solvents. Mr. Stein assisted the Client through Maryland's voluntary cleanup program (VCP).

Remedial Action Implementation, Griffiss Air Force Base, NY - Designed and implemented a large scale ex-situ soil land farm project for the treatment of approximately 3000 cubic yards of petroleum hydrocarbon contaminated soil. The project used enhanced aeration and biostimulation (nutrient addition) techniques to reach remedial end points. Work was performed under the direction of the Air Force Center for Environmental Excellence (AFCEE).

Operation, Maintenance and Monitoring of 25 Petroleum Retail Facilities, Mid-Atlantic Region, Project Director: Supervised project manager, remediation specialist and technicians in all aspects of program for major oil company client. Developed database for tracking of remediation system operating parameters. Following the first year of implementation, the project team received an achievement award from the client.

Remedial Design and Implementation at Bulk Storage Terminal, Fredericksburg, VA, Project Manager - Designed low pressure pipe infiltration system for artificial groundwater recharge project. Performed permeability testing using a constant head permeameter to determine the

saturated hydraulic conductivity of vadose zone soil. Data was analyzed and used to size and place an infiltration gallery for remediation system effluent water.

Subsurface Investigation, Remedial Design and Implementation at Leaking UST Site, Warrenton, VA, Project Manager - Supervised a hydrogeologic investigation, remedial system design and implementation for an extensive LPH plume. Performed Hydrogeologic testing in fractured saprolite material. Analyzed and modeled hydrogeologic data for the design of a large-scale soil vapor extraction and electric total fluids extraction system. Design included an independent pneumatic system to recover LPH accumulations in the elevator shaft of a building. Managed construction and subsequent operation and maintenance of the recovery system.

## **PROFESSIONAL EXPERIENCE (*continued*)**

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Emergency Response for Overfill of Bulk Storage Tank at Bulk Storage Terminal, Newington, VA, Project Manager - Supervised a first response team following a 60,000 gallon fuel spill due to a pipeline overfill of a 300,000 gallon aboveground storage tank. Coordinated with state and county regulatory officials during cleanup activities.

Fate and Transport Modeling of Gasoline Constituents, Multiple Locations, Project Manager - Used various modeling packages (Flowpath, Bioplume) to simulate transport of chemical constituents with respect to sensitive receptors in support of quantitative risk assessments and remedial action plans.

Remedial Design at Bulk Storage Terminal, Oceana Naval Air Station in Virginia Beach, VA, Project Manager - Managed the developed of a corrective action plan for an extensive liquid-phase hydrocarbon plume. Conducted groundwater pumping tests, soil vapor extraction pilot studies, and dual vacuum extraction pilot studies to develop a conceptual design and preliminary specifications for a full-scale remediation system. Work was performed under the direction of the Naval Facilities Engineering Command (NAVFAC).

Remedial Designs for Two Ranger Stations, Cape Cod, MA, Project Manager - Managed the design and preparation of contract specifications for the remediation of heating oil spills at Nauset Ranger Station and the Rockwell House on Cape Cod. The designs included a bioventing system and a hydrogen peroxide injection system. Work was performed under the direction of The National Park Service.

Remedial Design and Implementation for Elementary and Middle Schools, Providence, RI, Project Manager - Managed the design and implementation of a sub-slab soil ventilation system for two new public schools built on a closed landfill. The design integrated the two sub-slab systems into a central treatment compound where the off-gas was treated with granular activated carbon.

Environmental Assessment for Real Estate Transaction, Dallastown, PA, Project Manager - Served as buyer's consultant for the assessment of a 30 acre parcel in association with a property transaction. The property was an active defense contractor manufacturing plant and was significantly impacted with chlorinated solvents. The assessment was used to develop the purchase price of the property and an indemnification agreement.

Subsurface Investigation and Existing Remediation System Evaluation at Bulk Storage Terminal, Naval Air Station-Sigonella, Sicily, Italy, Project Manager - Supervised the installation and yield testing of groundwater extraction wells. Evaluated performance of existing total fluids extraction and treatment system in conjunction with a local engineering company. Developed a scope of work and negotiated a contract with the local company for operation and maintenance of the system. Work was performed under the direction of the NAVFAC.

Environmental Assessment for Real Estate Transaction, Towson, MD, Project Manager - Served as seller's consultant for the assessment of a 11 acre parcel in association with a property transaction. The property was a former Allied Signal manufacturing facility and was impacted with chlorinated solvents, metals and PCBs.

## **PROFESSIONAL EXPERIENCE (*continued*)**

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Subsurface Investigation, Remedial Design and Implementation at Building Development Site, Washington, DC, Project Manager - Managed a subsurface assessment and developed a remediation plan for an extensive contaminated soil issue for The John Akridge Companies. The remediation plan was implemented using innovative soil disposal options which resulted in substantial cost savings to client.

Groundwater Treatment System Operation, Navy Yard, Washington, DC, Project Manager - Served as project manager for the treatment of lead and petroleum contaminated groundwater during construction dewatering activities. Work was performed for Turner Construction in association with the U.S. Navy.

CERCLA Feasibility Studies, Wallops Flight Facility, Wallops Island, VA - Developed remedial alternatives for clean-up of PCB impacted soil associated with an electrical transformer storage area, and chlorinated solvent impacted groundwater associated with a former fire training area. Work was performed under the direction of the National Aeronautics and Space Administration (NASA).

Environmental Assessment for Voluntary Clean Up Program, Baltimore, MD, Project Manager - Served as Project Manager for the assessment and evaluation of environmental liability as part of foreclosure proceedings of a 167 acre industrial property in Baltimore, Maryland. The site was impacted with arsenic, lead, petroleum, and chlorinated solvents. Mr. Stein evaluated and recommended application through Maryland's voluntary cleanup program. Due to numerous issues, three separate applications were submitted and successfully negotiated to closure.

Remedial Action Implementation, BOMARC Missile Facility, Mcquire Air Force Base, NJ - Managed remedial construction activities associated with the flushing and decontamination of hydraulically operated missile launcher equipment at 71 launch shelters. Work was performed under the direction of AFCEE.

Underground Storage Tank Removal Project, Griffiss Air Force Base, NY - Managed field effort for remedial construction activities associated with the removal and closure of multiple Underground Storage Tank sites. Work was performed under the direction of AFCEE.

Water Supply Study at Mobile Oil Company Headquarters in Fairfax, VA - Managed hydrogeologic investigation of high-yield water wells used for irrigation system. Study consisted of performing and analyzing step-drawdown and constant rate pumping tests for well efficiency and well interference determinations

Reservoir Siting Project, New Castle County, DE, Lead Geologist: Designed and supervised geotechnical investigation of potential 1.6 billion gallon water supply reservoir. Work included extensive geologic field mapping, seismic refraction survey, subsurface boring investigation and hydrologic analysis.

SPCC Plans for Various Facilities, Project Manager: Prepared spill prevention, control, and countermeasure plans and oil discharge contingency plans for clients including Star Enterprises, General Motors Corporation, Enron, Morgan Oil Corporation, and Quarles Petroleum.