Jeffrey V. Dagdigian, Ph.D.

Managing Principal Environmental Scientist

Waterstone Environmental, Inc.

Dr. Jeffrey V. Dagdigian is Waterstone's owner and lead environmental scientist. Dr. Dagdigian holds a Ph.D. in chemistry and has over 33 years of industry and environmental experience. During his career as an environmental scientist, Dr. Dagdigian has performed expert witness testimony, litigation support, site assessments, remedial strategy development and costing, forensic chemical analysis of contaminants, environmental site restoration, waste minimization and wastewater treatment process engineering. Dr. Dagdigian's expert witness reputation has caused him to be chosen as the testifying expert for U.S. Department of Justice environmental cases, and cases with Fortune 10 companies where billions of dollars in claims or damages are at stake. As a part-time instructor at the University of California, Irvine, Dr. Dagdigian is very active in teaching courses addressing environmental issues related to environmental due diligence, site characterization, remediation and cleanup standards, regulatory compliance and innovative technologies related to site assessment and remediation.

Education

- Ph.D., Chemistry, University of Southern California, 1980
- B.S., Biology, University of Southern California, 1975

Capabilities

- Litigation Support Services
- Forensic Chemical Analysis
- Chemical Fate and Transport
- Environmental Strategy Development
- Implementation of Remediation Technologies
- Remedial Action Costing
- Site Closure
- Government Agency Liaison
- Computer Modeling
- Waste Minimization
- Wastewater Treatment Systems
- Business Acquisition Audits
- Air Resources Management
- Phase I Environmental Assessments
- Asbestos Management
- Environmental Compliance Audits

Key Projects

Litigation Support Services

- *Tricor Refining, LLC, etc. v. Crompton Corporation, etc.*; Kern County Superior Court Case No. S-1500-CV-252296-SPC. In this case, Dr. Dagdigian served as the sole expert witness for Tricor Refining, LLC. Dr. Dagdigian provided opinions regarding the extent and nature of soil, soil gas, and groundwater contamination beneath the Golden Bear Refinery located in Oildale, California. These opinions were based on a multi-year investigation of the refinery Dr. Dagdigian directed which included hundreds of borings and samples collected in both soil and groundwater beneath the refinery. In addition, Dr. Dagdigian opined on the fate and transport of the various chemicals through various media using chemical, geological, and hydrogeological principles. This portion of my testimony was aimed at showing areas of contamination that needed remediation and the potential migratory paths for contaminants currently impacting the soil and groundwater. Finally, Dr. Dagdigian developed health-based cleanup levels for all of the chemicals of concern and provided the Court with his detailed engineering plans for the cleanup and remediation of contaminated soil beneath the refinery. Based on his remediation plans, Dr. Dagdigian testified that the cleanup cost for the entire refinery would be $29.5 million. This estimate was based on a detailed engineering cost estimate, prepared by me, which totaled remedial costs for every area of the refinery that was contaminated. The costs included installation of several vapor extraction systems to remove volatile vapors in the soil gas, excavation of contaminated soil beneath various operating units within the refinery, installation of various shoring systems and the removal of and re-installation of various operating units and tanks within the refinery.
- For a confidential client, Dr. Dagdigian was the lead expert witness for the plaintiffs in a case involving contamination of a 600 acre commercial/light industrial park by releases of jet fuel, leaded gasoline, unleaded gasoline, and various refinery intermediates. Three entities (two pipeline companies and large oil refinery) were involved in the releases of the above materials, which eventually resulted in six groundwater plumes, which were commingled in various locations on the property. Among other demands, the plaintiffs asked for cleanup costs and full indemnification from future liabilities. Dr. Dagdigian was responsible for reviewing existing site characterization data produced by a variety of consultants for various clients, integrating the all site characterization data into a single database, developing and implementing an expedited sampling program, which allowed for determination of the extent of contamination and an allocation to the responsible parties. In addition, Dr. Dagdigian was responsible for preparing and defending in court a remedial action plan and corresponding remedial cost estimates. As a result of Dr. Dagdigian's efforts, two of the defendants settled out of court meeting the plaintiff's demands and with respect to the third defendant, the jury found in favor of the plaintiff.
- For a major aerospace client as defendant, Dr. Dagdigian was deposed regarding the client's management of Material Safety Data Sheet (MSDS) information system. Dr.

Dagdigian provided an explanation of the MSDS system that was developed for the client under his supervision including an explanation regarding the type of chemical and technical information contained in the MSDS system. Dr. Dagdigian provided specific information regarding Proposition 65-listed chemicals and chemicals listed under AB2588 (Toxic Hot Spots). Dr. Dagdigian's testimony was used to provide a strong defense for the client which included a detailed explanation of how all mixtures of chemicals could be traced to individual chemical compounds in the client's MSDS system, how to use the MSDS system to trace all Proposition 65 chemicals automatically, and how the client uses the MSDS system to monitor manufacturing activities where Proposition 65 chemicals are used.

- Representing a steel manufacturer as defendant, Dr. Dagdigian was deposed regarding the storm water pollution prevention plan that was developed pursuant to federal regulations under his supervision. Stormwater from the client's plant had migrated to a neighboring chemical manufacturer's property. Dr. Dagdigian testified regarding the methodology of the storm water plan he developed for the client and he provided detailed testimony regarding whether lead could be present in the client's stormwater, the migration properties of lead in general and whether it was possible for lead to migrate onto the plaintiff's property via stormwater. Dr. Dagdigian also provided expert testimony regarding the type of cleanup that would be required if remediation was necessary.
- Representing the plaintiff regarding litigation over a remediation technology, Dr. Dagdigian testified about the remediation method used to remove a variety of chemicals from impacted soil. Dr. Dagdigian's testimony provided detailed information regarding the use of low temperature thermal desorption including a discussion of the types of chemicals it can remove, how each chemical reacts with the low temperature, and the byproducts of the chemical reaction created by the low temperature method. Dr. Dagdigian's testimony included a discussion of the pilot tests run and an explanation of chemical boiling points and how boiling points are used to determine the efficiency of the low temperature remediation method with the types of chemicals that existed onsite.
- Dr. Dagdigian directed a site investigation which included the collection and analysis of the following soil vapor, soil, and groundwater samples:
  - Collection and analysis of 127 soil vapor samples
  - Collection and analysis of 126 soil samples from 79 locations
  - Collection and analysis of 189 water samples from 113 locations; of these, 94 samples were collected from deeper saturated zones beneath the Property
  - Interpretation of subsurface geology and identification of six discrete groundwater flow zones within 60 feet of surface from the installation and description of 30 deep borings, seven of which were continuously cored.

  Dr. Dagdigian's Phase II investigation led to the identification of two areas of concern on the site. One area consisted of soil and groundwater contamination was clearly the result

of onsite sources. This area was remediated by excavation. The second area was the result of offsite sources. Waterstone prepared a document clearly showing the path of migration from offsite sources and supported all hypotheses with information from several flow zones from beneath the property. Following remediation of the onsite area, the RWQCB closed the site without further remediation, prepared letters ordering additional work from offsite sources, and permitted our client to abandon all groundwater monitoring wells on the site.

As a result of the investigation, remediation, and negotiation of closure directed by Dr. Dagdigian, our client was able to sell the property at full market price less than 1.5 years following the initiation of the original investigation. Waterstone has performed litigation support services that allowed the client to recoup 50% of the costs of performing the Phase II investigation and remediation from the responsible parties of the offsite source of contamination.

- *Confidential Paint Facility, Torrance, CA:* A large paint manufacturing facility included a spray paint canning operation. Freon, chloroform, and carbon tetrachloride were contaminants of concern in vapor. Waterstone studied the movement and pattern of contaminant transport and provided evidence that these compounds in soil vapor would naturally attenuate.
- *San Gabriel Valley Superfund Potentially Responsible Party:* Waterstone performed a small regional study to prove that the client had no CERCLA responsibility in the Puente Valley Operable Unit ("PVOU") of the San Gabriel Valley. Physical evidence in the form of soil, soil gas, groundwater sampling data, interviews, building department and other historical records regarding the Property, neighboring sites, and data from hydraulically upgradient and downgradient sites was used to model the movement of Freon contamination and demonstrate that contamination attributed to the client by the EPA could not have occurred. Based on Waterstone's report, the client received a *de minimus* settlement offer.

Forensic Chemical Analysis

As a Ph.D. chemist, Dr. Dagdigian has been retained frequently to perform forensic chemical analysis. Dr. Dagdigian uses environmental forensics to develop a clearer understanding of the source(s) of the chemical contaminants, the time since chemical release, and how chemicals have moved through the environment. Dr. Dagdigian uses his understanding of chemistry and physics and how chemicals interact in the environment. Additionally, Dr. Dagdigian has used forensic analysis to support responsible party allocations in situations involving commingled plumes, track the fate and transport of the chemicals in the environment, and determine the extent to which remediation has successfully removed chemical mass from the environment.

- Dr. Dagdigian was the lead expert witness in a case involving petroleum hydrocarbon contamination of commercial/industrial park from a inter-refinery pipeline used by one

oil refinery versus contamination from a second oil refinery located adjacent to the commercial/industrial park. Dr. Dagdigian performed an exhaustive forensic analysis using soil, soil vapor, groundwater and free product data to demonstrate the source of soil and groundwater contamination on the property. In addition to the traditional environmental analyses typically performed on these media, a more focused forensic analysis was performed. For the contaminated soil and free product media, this additional forensic analysis included full PIANO fingerprinting, stable isotope analysis, GC/FID analysis, full fuel oxygenate analysis, and lead alkyl analysis. For the vapor phase media, forensic chemical analysis included vapor flux rate studies and full GC/MS characterization of the vapors. The types and concentrations of the fuel oxygenates and lead alkyls allowed Dr. Dagdigian to demonstrate that the contamination was caused by a release of leaded gasoline and aviation fuel which had been produced between 1960 to 1980. In addition, several marker chemicals were identified in the groundwater, which confirmed the source as the inter-refinery pipeline and not the adjacent oil refinery.

- Dr. Dagdigian was retained as the environmental expert in a case involving a commingled gasoline plume from two nearby gasoline stations. The case involved determining whether the gasoline plumes were in fact commingled and, if they were commingled, allocation of remediation costs to each responsible party. Dr. Dagdigian performed a forensic analysis on the free product to determine whether the free product found on the subject gasoline station came from the nearby gasoline station. This forensic evaluation included full PIANO fingerprinting, stable isotope analysis, GC/FID analysis, full fuel oxygenate analysis, and lead alkyl analysis. Evaluation of the rate of evaporation of the volatile components and water washing and biodegradation of selected components were incorporated into the forensic analysis to demonstrate that the plume from the nearby gasoline station had indeed impacted the subject gasoline station. The analysis also showed that approximately 80% of the groundwater contamination on the subject gasoline was the result of a release from the neighboring gasoline station.
- Dr. Dagdigian has successfully used his extensive knowledge of chemistry to negotiate innovative and cost-effective remediation measures with the Regional Water Quality Control Board regarding Freon and acetone impact in groundwater at a former paint manufacturing company. By developing a conceptual model describing how different chemicals are retained by soils, chemical vapor pressures, and the chemical behavior of acetone and Freon in vapor, soil, and groundwater, Dr. Dagdigian negotiated a single episode of groundwater extraction in place of a lengthy pump and treat or air sparging system for the client.

Chemical Fate and Transport

- Dr. Dagdigian proposed a conceptual model for the movement of various metals through soil including Chromium VI, nickel, lead, zinc, and copper to support closure of a facility leased by a major chemical manufacturer. He explained the nature of the molecular size and properties of the metals and how they migrate in soil and groundwater. The

presentation of this conceptual model to the California EPA Department of Toxic Substances Control proved that deep groundwater was not affected by metals and the site received closure under the Department's Voluntary Cleanup Program.

- Dr. Dagdigian used his conceptual modeling experience and understanding of chemical behavior in the subsurface to provide evidence that polynuclear aromatic hydrocarbons (PAHs) had not been fully addressed by a prior gas utility site owner. Dr. Dagdigian presented a conceptual model of how PAHs migrate in soil and groundwater, and provided a prediction of where the PAHs migrated by providing an explanation of PAH migration rates, solubility, volatility and methods of PAH movement in the environment. The results of Dr. Dagdigian's presentation caused the prior owner to expand its characterization of the site, increase the remedation efforts, and perform a more complete cleanup. The original remediation estimate, which included the removal of 7,000 tons of soil, was revised to the removal of 17,000 tons of soil based on the conceptual model.

Wastewater Treatment Systems

- Designed a wastewater treatment facility for treating metal plating wastes at a major southern California aerospace facility.
- Managed the design and start-up of five wastewater treatment facilities for a large U.S. battery manufacturer to remove lead, copper, and zinc metals.
- Managed the design and start-up of three wastewater treatment facilities for plating operations of several aerospace fastener manufacturers. These wastewater treatment facilities included heavy metal removal, chrome reduction, cyanide oxidation chemistry, and process engineering.
- Managed the environmental audit, facility design, and facility start-up of two wastewater treatment facilities for an electrical connector manufacturer. These wastewater treatment facilities included heavy metal removal, chrome reduction, cyanide oxidation chemistry and process engineering.
- Modified cyanide treatment systems for several electroplaters from single-phase chlorine systems to dual-phase hypochlorite treatment systems.

Property Transaction Environmental Assessments

- Principal-in-Charge of the Phase I environmental assessment and site characterization of a chemical facility in southern California undergoing closure. Previous site uses included the production of clay adsorbent for petroleum refining, the manufacture of acid-leached clays used for purifying cooking oils, fuels, and other similar materials, and the production of fluid cracking catalyst and zeolites. Elements of the project include identification of historical chemical use/storage areas; site inspection; soil and groundwater investigation to determine any chemical impact to the site; and evaluation of remedial options.

- Principal-in-Charge of a fast-track environmental assessment program conducted under attorney-client privilege. Oversaw a team of assessors who reviewed over 90 Phase I assessments, conducted 48 neighboring property assessments and nine Phase I assessments, and assessed potential remediation costs within a six-week period. Tabular summaries of results were successfully used by the client in negotiations with the property seller.
- Provided oversight for the review of a Phase I environmental assessment of three ski areas for a potential buyer. Provided comments and recommendations, developed potential cleanup costs, and evaluated landslide and mining waste reports.
- Principal-in-Charge of a due diligence investigation of 215 Alpha Beta grocery store facilities. The project involved site inspections, underground tank research, groundwater data research, ranking the potential impact from neighboring "listed" sites, and soil sampling at facilities with potential hazardous materials impact. Created a database for managing the information collected during the investigation. The database produced issue-specific (i.e., underground storage tanks, historical property usage, etc.) and site-specific reports. The client received bi-weekly status reports, and a final report, which was issued eight weeks following commencement of the project.
- Principal-in-Charge of multi-site environmental assessment of industrial, retail, and undeveloped properties located in California, Arizona, Colorado, and Oregon on behalf of a national real estate corporation. The 72 properties, ranging in size from two to 300-acres, and buildings on the properties, up to 400,000 square feet in size, were assessed in a five-week period for evidence of potential on-site soil and groundwater contamination and asbestos-containing materials (ACM). The assessments combined review of regulatory agency files, field inspections, and site specific soil sampling programs, and proposed to evaluate the presence of contamination at 25 of the properties.
- Developed the methodology for performing assessments of 419 retail, commercial, industrial, research & development, office, and residential properties in the midwest and western United States for a major California developer. Orchestrated the activities of a 3-office team to complete property file reviews, agency research, and site inspections for 275 of the properties. Final deliverable included a 15-volume, 3-inch binder set of reports, and three volumes of summaries and matrices.
- Project Director for a property transaction environmental assessment of 15 properties for Young's Market, a food and liquor distributor. Provided both Phase I and Phase II services.
- Project Director for the environmental assessment of 25 light industrial and warehouse facilities in a business park that is located within a National Priorities List (NPL) Superfund area. The purpose of the investigation was to evaluate the impact of the regional groundwater contamination on the subject site, and to assess the likelihood that activities currently or formerly conducted at the subject facilities and/or neighboring facilities impacted soil or groundwater underlying the subject property.

- Project Manager for a property transaction environmental assessment for Trammell Crow, a major national development company. Provided Phase I, Phase II, and asbestos sampling services for 66 properties located in the Western United States. The project was completed within six weeks, in conjunction of Jones, Day, Reavis & Pogue, a national law firm.
- Project Manager for a property transaction environmental assessment of a 900-acre oil and gas field located in southern California. The site originated in the 1920's, and included a natural gas plant, a wastewater treatment facility, a facility support yard, 300 oil wells, 95 tank farms, 51 sumps/pits, 17 catch basins, and 57 potential disposal sites. The project entailed the visual inspection and documentation of the condition of each well, tank farm, and sump; verification of the presence of each potential disposal site; inspection of the gas plant, support yard and wastewater treatment facilities; a historical records search; review of aerial photographs and company files; plotting of site observations on area maps; and preparation of final report.

Environmental Compliance Audits

- Principal-in-Charge of an environmental health and safety compliance audit of a major airline jet engine refurbishing facility in southern California. Facility operations included metal plating and machining, parts cleaning, abrasive blasting, welding, engine testing, and painting and dye penetration testing. The facility was evaluated through inspection, review of files, and personnel interviews. A single report was prepared that documented the facility's environmental compliance status with federal, state, and local regulations regarding hazardous waste and hazardous substance management, water quality and air emissions control, underground storage tank management, and health and safety compliance.
- Principal-in-Charge of a property acquisition environmental compliance audit of five corrugated manufacturing facilities in southern California. Project involved the evaluation of potential chemical impact to the property from operations conducted at each facility, and the environmental compliance status of each facility. Documented findings and provided recommendations and associated costs for each facility to achieve compliance.
- Project Manager for an environmental audit for a major cement manufacturer. The facility audited contained cement quarry, cement kiln, and cement packaging operations. Performed audit of environmental record keeping to ensure completion of proper reports, and designed a system for continued compliance.

Waste Minimization

- Principal-in-Charge of Hazardous Waste Source Reduction and Management Review Act of 1989 (SB14) compliance project for a major oil corporation's lube plant and terminal facility in southern California. Evaluated the hazardous waste generating processes at the

lube plant and terminal, and prepared a Hazardous Waste Management Performance Report and Report Summary, and Source Reduction Evaluation Review, Plan, and Plan Summary within a six-week period. Tasks included performing facility inspections and document review to estimate the total quantity of hazardous waste generated for the reporting year; identifying, evaluating, and selecting source reduction measures for each routinely generated hazardous waste stream; addressing the effectiveness of each selected measure in reducing hazardous waste and releases to all media; and preparing a timetable for implementing selected measures.

- Principal-in-Charge of SB14 project for an aluminum can manufacturing and aluminum extrusion facility. Project required the completion of a source reduction evaluation plan, waste management report, and related summaries. Oversaw data collection and review; identification and documentation of waste generating operations and past source reduction measures; and identification, evaluation, selection, and documentation of source reduction measures.
- Conducted a waste minimization audit of an aerospace plating facility, which reduced dragout by 40 percent and water usage by 50 percent with no impact on product quality or major capital expense.
- Conducted a source reduction program at a southern California aerospace metal finishing facility to meet pre-treatment requirements.
- Performed water and chemical mass balance studies for numerous plating shops to investigate wastewater treatment problems and waste minimization opportunities.

Air Resources Management

- Project Manager on several AB 2588 Toxics "Hot Spots" Emission inventory plans and reports throughout southern California.
- Project Manager for an Emission Inventory Plan for a circuit board manufacturer. Prepared Emission Inventory Plan; inventoried all chemicals emitted from the plant, which came under jurisdiction of AB 2588; developed methods to calculate emissions of those chemicals; designed and completed flow diagrams to describe how the chemicals were used and emitted.
- Managed the "Hot Spots" (AB 2588) evaluation of regulated chemicals for large semi-conductor electronics manufacturing firm within a 5 week time frame. Facility evaluation involved emissions from five buildings.
- Project Manager for review of an Emission Inventory Plan provided by another consultant for a major aerospace client. Reviewed the plan and prepared a critique for review by the client.
- Project Manager for an Emission Inventory Plan for a major aerospace manufacturing facility. Prepared an Emission Inventory Plan; inventoried all chemicals emitted from the plant, which came under jurisdiction of AB 2588; developed methods to calculate

emissions of those chemicals; designed and completed flow diagrams to describe how the chemicals were used and emitted.

Accelerated Site Investigation and Closure

- Principal-In-Charge for a comprehensive Phase II investigation associated with potential environmental issues created by the historical use of approximately 20 properties as retail paint stores. The goal of the environmental work performed on these sites was to evaluate all potential environmental issues to prepare each parcel for sale as part of liquidation proceedings for a large portfolio. An additional stipulation was to minimize the future liability of the client by performing comprehensive, exhaustive investigation of all potential environmental issues for each property.

  Investigations were performed by collecting samples of soil vapor, soil, and groundwater using hand auger, hollow stem auger, geoprobe, dual wall casing, and cone penetrometer methods. Dr. Dagdigian negotiated closure with several different agencies including the California Regional Water Quality Control Board, the California Department of Toxic Substances Control, the County of San Diego Hazardous Materials Management Division, the Alameda County Department of Environmental Health, and various local oversight agencies such as city Fire Departments.
- As Principal-In-Charge, supervised Phase II sampling on a 33 acre oil field parcel where gas plant operations, oil production, and crude oil storage have been performed since 1902. Used Phase II data to prepare remediation cost calculations for the purposes of transferring the property to a new owner.
- As Principal-In-Charge for a southern California oil production company, oversaw the Phase II investigation, risk assessment activities, and preparation and implementation of a remedial action plan to remove 1100 cubic yards of soil from a site where oil production activities had been performed since the 1920's. First sampling through final closure report was performed in less than 3 months to meet a client-mandated deadline for marketing the property.
- For a Southern California home builder, participated in the design and implementation of an accelerated remediation of a former oilfield property where the discovery of sump materials stopped construction of homes in three different areas. Disposal of thousands of cubic yards of soil to the former oil operator's bioremediation cell was required within a one week timeframe to allow the building schedule to resume as planned. After all visible contamination was removed and confirmation samples were collected, the resultant data was used in a risk assessment for the site. Dr. Dagdigian then negotiated the accelerated issuance of a site closure letter with the Los Angeles Region of the Regional Water Quality Control Board.
- Principal-In-Charge for the Phase I Environmental Assessment of a warehouse property formerly owned by a large oil company. Air photo review revealed that a large ponded area had existed on the property for many years during the time it was owned by the oil

company. Subsequent sampling of this potential environmental issue indicated that diesel range hydrocarbons existed in this area. Dr. Dagdigian oversaw the lateral and vertical extent sampling and oversaw a risk assessment, which indicated that the area posed no threat to human health and the environment or groundwater. Dr. Dagdigian's personnel determined that the Voluntary Cleanup Program administered by the California Department of Toxic Substances Control was the appropriate route to the most timely environmental closure of the site.

- Due to a very strict escrow deadline on this property, Waterstone personnel involved local city officials to assist in negotiations with the Department of Toxic Substances Control to speed closure. Waterstone personnel were successful in negotiating a full site closure from the Department of Toxic Substances Control in 12 business days, allowing the sale to be consummated. According to Department of Toxic Substances Control personnel, this was the most accelerated timeline for closure under its Voluntary Cleanup Program to date at that time.

  The client retained Dr. Dagdigian to provide environmental assessment, remedial investigation, remediation, and supervision of risk assessment activities to negotiate environmental closure of the site so that the property could be returned to the owner without future liability to the client. An accelerated investigation/remediation was performed to allow the client to return the property to its owners in 10 months, far ahead of the 1.5 to 2 years customarily required by agency guidelines. After submittal of this site closure report to the Department of Toxic Substances Control under its Voluntary Cleanup Program, a 'No Further Action' decision was received for metals-impacted soil at the facility.

- As Principal-In-Charge, Dr. Dagdigian conducted a remedial investigation of soil and groundwater and remediation cost estimate for a bankrupt paint manufacturing facility. In the 1950s and 1960s this facility was the largest paint producer in the western United States. A large tank farm of raw materials was located on the facility and consisted of over 50 aboveground tanks, and approximately 12 former underground storage tank locations along with hundreds of linear feet of associated product lines leading into manufacturing areas. Manufacturing areas included solvent-based paint production, water-based paint production, aerosol paint packaging, and the manufacture of lacquers and thinners.

- Dr. Dagdigian supervised the collection and analysis of approximately 100 soil vapor samples, and 50 soil samples from over 120 sampling locations on the property. Areas of chemical impact identified through this investigation were further investigated to provide lateral and vertical extent characterization. Dr. Dagdigian is in the process of completing a Preliminary Endangerment Assessment (which includes risk assessment) for the property prior to submittal of this case into the Voluntary Cleanup Program with the California Department of Toxic Substances Control.

Computer Programming and Modeling

- Designed and wrote a chemical mass balance model to demonstrate that oil field wastewater had contaminated three aquifers used for drinking and agricultural irrigation water. The model was presented in deposition and jury trial testimony and the client was awarded damages based on Dr. Dagdigian's testimony.
- Designed and wrote a computer program to model wastewater treatment facility operations. The program took wastewater stream input data and performed mass balance type calculations; performed engineering design basis calculations; determined future chemical use rates; and determined capital and O&M costs.
- Designed and co-wrote a database software system to manage MSDS's, associated chemical manufacturers and contacts, associated CAS chemical components, and physical properties of chemicals and MSDS's. The software system also performed air emission calculations, and was able to receive input into a laws database and determine which MSDS's were affected by various environmental legislation. The program tracked the locations of all chemicals used, as well as the source points at which air emissions left the facility. The program utilized chemical emission locations and chemical physical properties to calculate air emissions using various models that are pre-programmed into the system. Users are able to easily create reports that manipulate all of the above information.

Professional Affiliations

American Electroplaters and Surface Finishers Society
American Chemical Society

Specialized Training and Certifications

Certified Electroplater/Finisher

Publications

A. M. Holbrow, A. Keller, J. V. Dagdigian, C. Amantea, "Identifying Potential Liabilities Associated with Business Transactions," Journal of Environmental Law. May/June 1994.

M. McCullough, J. Dagdigian, A. Holbrow, R. Seguy, and R. Currie, "Implementing a Regulatory Compliance Program for Air Toxics, " in Proceedings of A&WMA Specialty Conference on New Hazardous Air Pollutant Laws and Regulations: Their Impact on Industry. Government and the Public, Air & Waste Management Association, 1992.

M. L. McCullough, J. V. Dagdigian, R. A. Seguy, and C. V. Vukmanic, "An Essay on Waste Source Reduction through Conservation of Process Power and Water," in

Proceedings of Minimization and Recycling of Industrial and Hazardous Waste '92, Hazardous Materials Control Research Institute, 1992.

M. L. McCullough, J.V. Dagdigian, and M.L. Walker, "Responding to Findings of Violation and Orders Pursuant to the Clean Water Act," in Proceedings of the 1992 Industrial Environmental Association Annual Conference," Industrial Environmental Association, 1992.

M.L. McCullough, J.V. Dagdigian, and A.M. Holbrow, "Developing Air Compliance Programs," in Proceedings of the 1992 Industrial Environmental Association Annual Conference," Industrial Environmental Association, 1992.

M. L. McCullough, J. V. Dagdigian, and C. N. Parris, "Evaluating Soil Washing for Removing Petroleum Hydrocarbon and Metals Contamination," in Proceedings of Superfund '92, Hazardous Materials Control Research Institute, 1992.

M. L. McCullough and J. V. Dagdigian, "Evaluating Regulatory Issues and Emission Control Equipment for Air Toxics Applications, "Remediation, Vol. 2, No. 4: 15-38.

M. L. McCullough, and J. V. Dagdigian, "Evaluation of Remedial Options for Treatment of Heavy Metal and Petroleum Hydrocarbon Contaminated Soil, "Remediation, Vol. 3, No. 2: 1-30.

M. L. McCullough, J. V. Dagdigian, and M. L. Walker, "Responding to a Finding of Violation of Order Under the Clean Water Act," Environmental Regulation, Vol. 3, No. 3: 1-12.

M. L. McCullough, J. V. Dagdigian, A. M. Holbrow, "Developing Air Compliance Plans," presented at the Eighth Annual EA Environmental Compliance Conference, San Diego, CA, August, 1992.

Professional Instruction

Since 1992, has taught the *"Introduction to Site Characterization and Environmental Auditing", "Introductory Chemistry of Hazardous Materials",* and *"Environmental Management"* classes for the University of California, Irvine, Extension Program for Environmental Management.

Appendix B

References

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4) Bach, G. 2013. *Volume II Videotaped Deposition of George Bach.* March 11. p. 284: 18-19.

5) Bach, George, 1968. Grading Plan of Tract No 24836. April 17. Sheet 2 of 3.

6) Ballman, E.A. 1966. *Kast Fee Property*. April 14. Internal correspondence from Shell Refinery Manager- Wilmington Refinery to D.E. Clark, Pacific Coast Area, Shell Area Land Manager. (SOC 120420)

7) Ballman, E.A. 1966. *Kast Fee Property*. May 4.Internal correspondence from Shell Refinery Manager- Wilmington Refinery to D.E. Clark, Pacific Coast Area, Shell Area Land Manager (SOC 120418)

8) Barclay, Richard. 1965. *RE: Lomita Property.* Correspondence from Barclay to Durland Clark, Shell Oil Co. December 1. (SOC000056).

9) Beaton, Kendall. 1957. *Enterprise in Oil A History of Shell in the United States*. March.

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15) Brown and Caldwell. 1995. *Backfill and Final Project Completion Report Reservoirs 1 and 2*. October.

16) Brown and Caldwell. 1996. *Perimeter Investigation Summary Report Former Reservoirs #1 and #2*. April 24. Figure 1 in Attachment A - Workplan for Reservoir Closure Project Sub-Grade Berm Soil Sampling.

17) Brown and Caldwell. 1997. *Low Permeability Cap Extension - Addendum 1 of the Backfill and Final Project Completion Report, Reservoirs 1 and 2*. August.

Appendix B

References

18) California Department of Toxic Substances Control. 1997. *RCRA Facility Assessment – Witco Corporation, Golden Bear Products, Mt. Poso Tank Farm.* June.

19) California Department of Toxic Substances Control. 2002. *Approval of Closure and No Further Action Determination of the Witco Oil Sludge Pits.* April 23.

20) California Department of Toxic Substances Control. *EnviroStor Database Summary for Tricor Refining LLC Tank Farm.* Retrieved from http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=80001851 on December 1, 2013.

21) California Regional Water Quality Control Board Los Angeles Region. 1994. *Shell Oil Company, Former Wilmington Plan – 1520 through 1622 East Sepulveda Boulevard in Carson – Removal of Oil Storage Reservoirs (File No. 92-19).* December 1.

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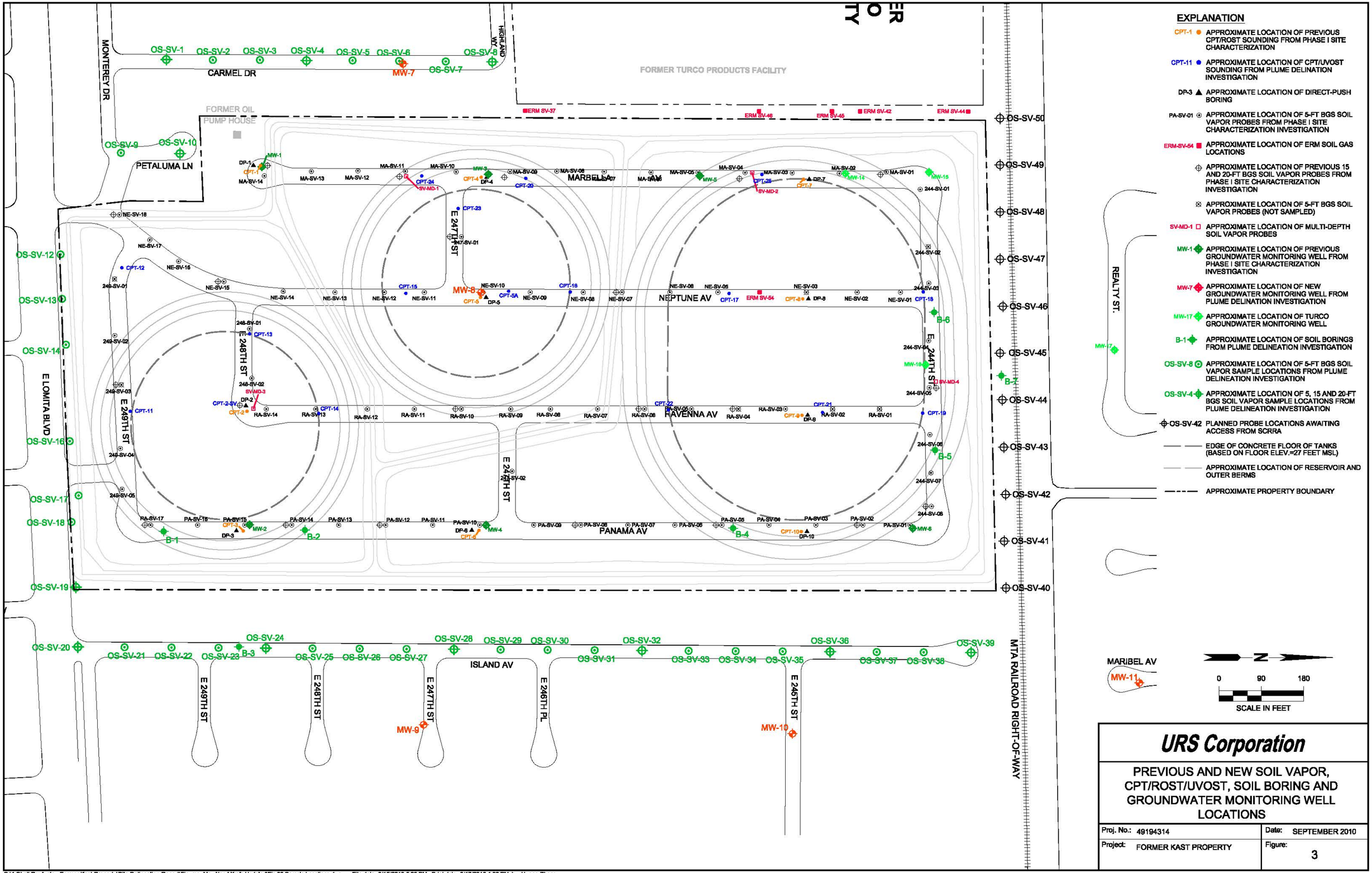
URS Figure 3
Plume Delineation Report Former Kast Property Carson, California.
September 29, 2010



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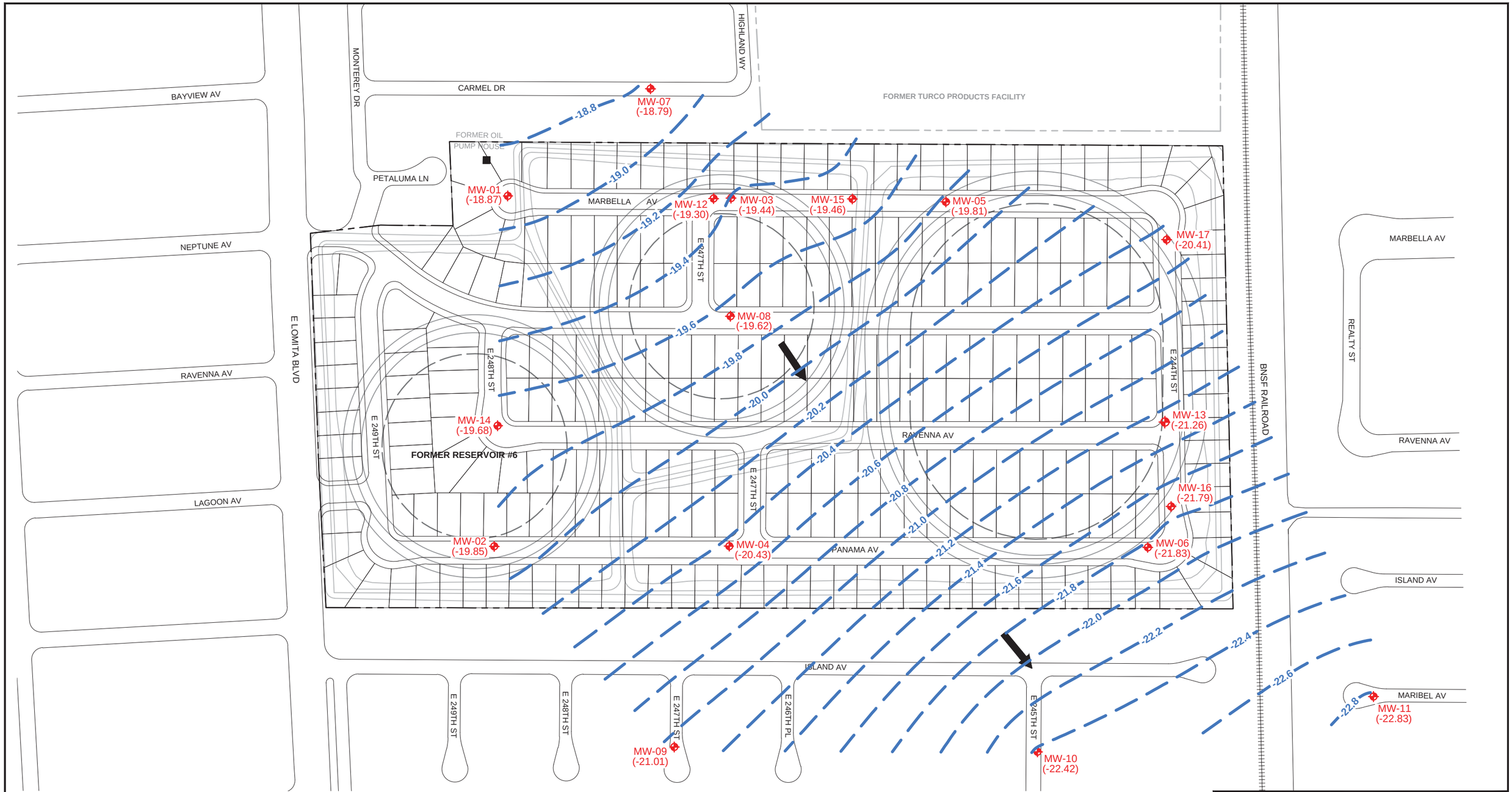
URS Figures 2, 3 and 4

Fourth Quarter 2012 Groundwater Monitoring Report,
***October Through December 2012, Former Kast Property, Carson, California*.**
January 15, 2013



EXPLANATION

MW-11 (-22.83) — APPROXIMATE LOCATION OF KAST GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION (MEAN SEA LEVEL)

APPROXIMATE SITE BOUNDARY

APPROXIMATE GROUNDWATER FLOW DIRECTION

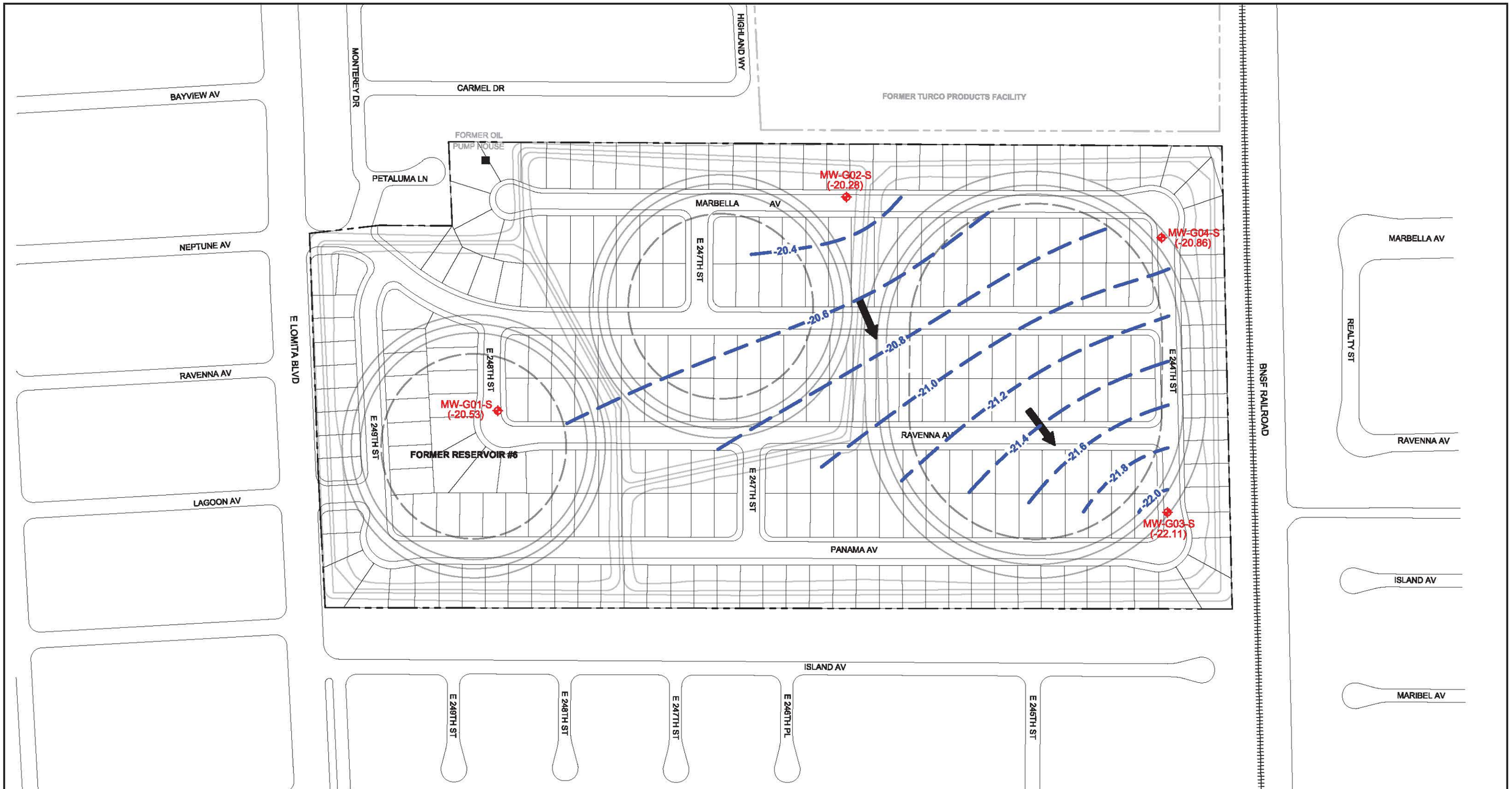
-22.8 — GROUNDWATER ELEVATION CONTOUR (FEET MSL)

URS

GROUNDWATER ELEVATION CONTOUR MAP
WATER TABLE WELLS
FOURTH QUARTER 2012

Proj. No.: 49194377	Date: JANUARY 2013
Project: FORMER KAST PROPERTY	Figure: 2

G:\1 Shell Products - Former Kast Property\Groundwater Monitoring\Groundwater Monitoring Reports\2013 01 15 Fourth Qtr 2012 GWMR\03 Figures\surfer N CADD\Figure 02 MW Contours.dwg , File date: 12/18/2012 4:50 PM , Print date: 12/18/2012 4:51 PM by: Negrete, Gabriel



EXPLANATION

MW-G01-S (-20.53) — APPROXIMATE LOCATION OF KAST GAGE GROUNDWATER SHALLOW WELL WITH GROUNDWATER ELEVATION (MEAN SEA LEVEL)

APPROXIMATE SITE BOUNDARY

APPROXIMATE GROUNDWATER FLOW DIRECTION

-21.6 — GROUNDWATER ELEVATION CONTOUR (FEET MSL)

N

0 100 200

SCALE IN FEET

URS

GROUNDWATER ELEVATION CONTOUR MAP
GAGE WELLS - SHALLOW COMPLETIONS
FOURTH QUARTER 2012

Proj. No.: 49194377	Date: JANUARY 2013
Project: FORMER KAST PROPERTY	Figure: 3

G:\1 Shell Products - Former Kast Property\Groundwater Monitoring\Groundwater Monitoring Reports\2013 01 15 Fourth Qtr 2012 GWMR\03 Figures\surfer N CADD\Figure 03 Gage S Contours.dwg , File date: 12/18/2012 1:57 PM, Print date: 12/18/2012 1:57 PM by: Negrete, Gabriel

EXPLANATION

MW-G01-D (-20.53) — APPROXIMATE LOCATION OF KAST GAGE GROUNDWATER SHALLOW WELL WITH GROUNDWATER ELEVATION (MEAN SEA LEVEL)

APPROXIMATE SITE BOUNDARY

APPROXIMATE GROUNDWATER FLOW DIRECTION

-21.6 — GROUNDWATER ELEVATION CONTOUR (FEET MSL)

N

0 100 200

SCALE IN FEET

URS

GROUNDWATER ELEVATION CONTOUR MAP
GAGE WELLS - DEEP COMPLETIONS
FOURTH QUARTER 2012

Proj. No.:	49194377	Date:	JANUARY 2013
Project:	FORMER KAST PROPERTY	Figure:	4

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URS Tables 1 and 4

Fourth Quarter 2012 Groundwater Monitoring Report,
***October Through December 2012, Former Kast Property, Carson, California*.**
January 15, 2013

TABLE 1

Groundwater Levels and Field Parameters
Fourth Quarter 2012
Former Kast Property
Carson, California

Monitoring Well No.	Gauging Date	Notes	GROUNDWATER LEVELS					GROUNDWATER SAMPLING FIELD PARAMETERS						
			Depth to Groundwater (feet btoc)	Depth to Separate Phase Product (feet btoc)	Product Thickness (feet)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Sampling Date	Temperature (Celsius)	pH	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	O.R.P. (mV)
MW-01	10/22/12	1	58.45	Not Present	0.00	39.58	-18.87	10/25/12	23.2	6.57	2,353	2	1.38	39.0
MW-02	10/22/12	1	62.88	Not Present	0.00	43.03	-19.85	10/25/12	23.3	6.68	2,099.00	2	0.38	-19.0
MW-03	10/22/12	2	56.07	52.26	3.81	33.14	-19.44	NS	NS	NS	NS	NS	NS	NS
MW-04	10/22/12	1	61.28	Not Present	0.00	40.85	-20.43	10/24/12	23.2	6.68	2,660	3	0.64	-50.1
MW-05	10/22/12	1	52.12	Not Present	0.00	32.31	-19.81	10/25/12	24.6	6.35	1,188	6	0.46	-109.5
MW-06	10/22/12	1	57.42	Not Present	0.00	35.59	-21.83	10/25/12	23.5	6.90	1,861	3	0.36	-131.8
MW-07	10/22/12	1,3	57.48	Not Present	0.00	38.69	-18.79	10/25/12	23.1	6.46	10,188	69	0.87	-37.2
MW-08	10/22/12	1	58.44	Not Present	0.00	38.82	-19.62	10/26/12	24.4	6.71	3,023	3	0.49	-128.6
MW-09	10/22/12	1	63.45	Not Present	0.00	42.44	-21.01	10/24/12	22.6	6.89	2,612	58	0.90	-81.0
MW-10	10/22/12	1	67.62	Not Present	0.00	45.20	-22.42	10/24/12	23.0	6.96	3,424	36	0.50	-96.0
MW-11	10/22/12	1	58.90	Not Present	0.00	36.07	-22.83	10/22/12	23.5	7.07	2,306	8	0.39	-120.1
MW-12	10/22/12	1	52.63	Not Present	0.00	33.33	-19.30	10/25/12	23.1	6.18	8,752	6	0.56	-104.2
MW-13	10/22/12	1	54.90	Not Present	0.00	33.64	-21.26	10/26/12	24.6	6.59	2,648	5	0.50	-110.2
MW-14	10/22/12	1	61.34	Not Present	0.00	41.66	-19.68	10/26/12	24.3	6.58	3,470	7	0.39	-119.9
MW-15	10/22/12	1	51.98	Not Present	0.00	32.52	-19.46	10/24/12	23.8	6.49	1,687	16	0.58	-89.5
MW-16	10/22/12	1	56.40	Not Present	0.00	34.61	-21.79	10/26/12	22.7	6.70	2,090	178	0.76	-68.0
MW-17	10/22/12	1	52.38	Not Present	0.00	31.97	-20.41	10/24/12	24.3	5.89	1,140	140	0.63	69.8
MW-G01-S	10/22/12	1	62.12	Not Present	0.00	41.59	-20.53	10/22/12	24.6	7.49	2,015	3	0.57	-38.2
MW-G01-D	10/22/12	1	62.14	Not Present	0.00	41.61	-20.53	10/23/12	24.0	9.30	1,116	3	0.57	-69.2
MW-G02-S	10/22/12	1	52.83	Not Present	0.00	32.55	-20.28	10/23/12	23.4	8.28	1,547	3	0.31	-32.0
MW-G02-D	10/22/12	1	52.89	Not Present	0.00	32.58	-20.31	10/23/12	23.2	7.75	1,314	2	0.54	-128.2
MW-G03-S	10/22/12	1	56.68	Not Present	0.00	34.57	-22.11	10/24/12	22.1	7.39	1,242	3	0.49	-114.0
MW-G03-D	10/22/12	1	56.57	Not Present	0.00	34.60	-21.97	10/23/12	23.7	7.60	1,572	3	0.54	-170.1
MW-G04-S	10/22/12	1	52.95	Not Present	0.00	32.09	-20.86	10/23/12	23.7	7.93	928	2	0.44	-137.2
MW-G04-D	10/22/12	1	53.00	Not Present	0.00	32.09	-20.91	10/23/12	23.6	7.59	1,432	2	0.53	-133.2

Explanation/Notes: 1 - Low-Flow Sample Collected
2 - Well not sampled due to presence of separate phase hydrocarbons.
3 - The water level measured during the gauging event was anomalous, and the water level measured during sampling was substituted.
Groundwater elevation adjusted for free product using a specific gravity of 0.9153
based on analyses performed by PTS Laboratories of Santa Fe Springs, California
NA - not analyzed/not measured
MSL - Mean Sea Level
btoc - Below top of casing
Groundwater Elevation reference to MSL
Groundwater Elevation = Casing Elevation - (Depth to Groundwater - (Specific Gravity x Product Thickness)).

µS/cm - microSiemens per centimeter
mg/L - milligrams per liter
O.R.P. - Oxidation Reduction Potential
mV - millivolts
NTU - nephelometric turbidity units

Table 4
Historical Groundwater Elevations and Parameters
Third Quarter 2012
Former Kast Property
Carson, California

Monitoring Well No.	GROUNDWATER LEVELS							GROUNDWATER SAMPLING FIELD PARAMETERS					
	Gauging Date	Notes	Depth to Groundwater (feet btoc)	Depth to Separate Phase Product (feet btoc)	Product Thickness (feet)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temperature (Celsius)	pH	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	O.R.P. (mV)	Turbidity (NTU)
MW-01	8/13/2009	1	59.72	Not Present	0.00	39.56	-20.16	23.31	6.97	2569	0.91	-145.7	2
MW-01	11/13/2009	1	59.81	Not Present	0.00	39.56	-20.25	23.19	6.8	2362	1.8	111.6	8
MW-01	2/4/2010	1	59.86	Not Present	0.00	39.56	-20.30	21.98	6.64	2702	1.14	17.3	5
MW-01	5/27/2010	1	59.53	Not Present	0.00	39.56	-19.97	22.79	6.67	2796	2.08	59.6	17
MW-01	7/6/2010	1	59.78	Not Present	0.00	39.58	-20.20	22.6	6.76	3126	0.8	89.2	9
MW-01	10/20/2010	1	59.38	Not Present	0.00	39.58	-19.80	22.9	6.85	2722	0.95	75.9	5
MW-01	2/3/2011	1	59.4	Not Present	0.00	39.58	-19.82	22.62	6.59	2808	1.07	51.9	4
MW-01	4/20/2011	1	59.2	Not Present	0.00	39.58	-19.62	22.98	6.7	2598	1.2	13.4	4
MW-01	8/15/2011	1	58.94	Not Present	0.00	39.58	-19.36	22.93	6.56	2332	1.32	52.9	1
MW-01	10/17/2011	1	58.9	Not Present	0.00	39.58	-19.32	22.48	6.54	2615	1.3	38.3	7
MW-01	1/24/2012	1	59.33	Not Present	0.00	39.58	-19.75	22	6.83	2516	1.12	-139.3	10
MW-01	4/16/2012	1	58.61	Not Present	0.00	39.58	-19.03	22.56	6.74	2598	1.13	60.9	6
MW-01	8/13/2012	1	58.42	Not Present	0.00	39.58	-18.84	25.5	6.47	2310	1.29	70.4	5
MW-01	10/22/2012	1	58.45	Not Present	0.00	39.58	-18.87	23.2	6.57	2353	1.38	39	2
MW-02	8/13/2009	1	64.31	Not Present	0.00	43.04	-21.27	22.74	6.8	2113	0.39	-174	7
MW-02	11/13/2009	1	64.44	Not Present	0.00	43.04	-21.40	22.9	6.93	2146	0.48	-97.4	5
MW-02	2/4/2010	1	64.64	Not Present	0.00	43.04	-21.60	21.85	6.73	2193	0.43	-92.7	5
MW-02	5/27/2010	1	63.94	Not Present	0.00	43.04	-20.90	23.24	6.82	2193	0.5	-67.2	19
MW-02	7/6/2010	1	64.14	Not Present	0.00	43.03	-21.11	22.9	7	2457	0.19	-101.8	21
MW-02	10/20/2010	1	63.83	Not Present	0.00	43.03	-20.80	22.8	7.8	2204	6.1	-104.1	577
MW-02	2/3/2011	1	63.85	Not Present	0.00	43.03	-20.82	22.74	6.77	2174	0.65	-71.8	12
MW-02	4/20/2011	1	63.75	Not Present	0.00	43.03	-20.72	22.28	6.76	2102	0.44	-119	2
MW-02	8/15/2011	1	63.57	Not Present	0.00	43.03	-20.54	22.59	6.71	2162	0.44	-102.8	2
MW-02	10/17/2011	1	63.47	Not Present	0.00	43.03	-20.44	22.43	6.69	2194	0.42	-105	2
MW-02	1/24/2012	1	63.44	Not Present	0.00	43.03	-20.41	21.6	8.37	2232	0.57	-157.8	11
MW-02	4/16/2012	1	63.17	Not Present	0.00	43.03	-20.14	22.41	6.91	2303	0.53	-105.6	30
MW-02	8/13/2012	1	62.94	Not Present	0.00	43.03	-19.91	24	6.57	2305	0.18	-117.5	2
MW-02	10/22/2012	1	62.88	Not Present	0.00	43.03	-19.85	23.3	6.68	2099	0.38	-19	2
MW-03	8/13/2009	2	54.02	53.88	0.14	33.15	-20.74	NA	NA	NA	NA	NA	NA
MW-03	11/13/2009	2	57.45	54.05	3.40	33.15	-21.19	NA	NA	NA	NA	NA	NA
MW-03	2/4/2010	2	59.41	53.5	5.91	33.15	-20.85	NA	NA	NA	NA	NA	NA
MW-03	5/27/2010	2	61.82	52.81	9.01	33.15	-20.42	NA	NA	NA	NA	NA	NA
MW-03	7/6/2010	2	62.09	52.81	9.28	33.14	-20.46	NA	NA	NA	NA	NA	NA
MW-03	10/20/2010	2	64.01	52.38	11.63	33.14	-20.23	NA	NA	NA	NA	NA	NA
MW-03	2/3/2011	2	62.59	52.3	10.29	33.14	-20.03	NA	NA	NA	NA	NA	NM
MW-03	4/20/2011	2	63.78	52.34	11.44	33.14	-20.17	NA	NA	NA	NA	NA	NA
MW-03	8/15/2011	2	63.1	52.3	10.80	33.14	-20.07	NA	NA	NA	NA	NA	NA
MW-03	10/17/2011	2	66.65	52.3	14.35	33.14	-20.38	NA	NA	NA	NA	NA	NA
MW-03	1/24/2012	2	63.58	51.9	11.68	33.14	-19.75	NA	NA	NA	NA	NA	NA
MW-03	4/16/2012	2	59.56	52.07	7.49	33.14	-19.56	NA	NA	NA	NA	NA	NA
MW-03	8/13/2012	2	61.05	51.38	9.67	33.14	-19.06	NA	NA	NA	NA	NA	NA
MW-03	10/22/2012	2	56.07	52.26	3.81	33.14	-19.44	NA	NA	NA	NA	NA	NA

Table 4
Historical Groundwater Elevations and Parameters
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Former Kast Property
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Monitoring Well No.	GROUNDWATER LEVELS							GROUNDWATER SAMPLING FIELD PARAMETERS					
	Gauging Date	Notes	Depth to Groundwater (feet btoc)	Depth to Separate Phase Product (feet btoc)	Product Thickness (feet)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temperature (Celsius)	pH	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	O.R.P. (mV)	Turbidity (NTU)
MW-04	8/13/2009	1	62.64	Not Present	0.00	40.84	-21.80	23.35	6.7	3056	0.39	-146.1	3
MW-04	11/13/2009	1	62.79	Not Present	0.00	40.84	-21.95	23.78	7.23	2773	2.64	110.8	>1,000
MW-04	2/4/2010	1	62.71	Not Present	0.00	40.84	-21.87	21.5	6.55	3081	0.54	-37.9	5
MW-04	5/27/2010	1	62.28	Not Present	0.00	40.84	-21.44	22.55	6.61	2959	0.5	127.6	10
MW-04	7/6/2010	1	62.47	Not Present	0.00	40.85	-21.62	22.7	6.73	3245	0.22	-10.6	13
MW-04	10/20/2010	1	62.13	Not Present	0.00	40.85	-21.28	22.6	6.73	2859	0.28	-60.2	6
MW-04	2/3/2011	1	62.14	Not Present	0.00	40.85	-21.29	22.63	6.75	2805	0.51	30.6	10
MW-04	4/20/2011	1	62.04	Not Present	0.00	40.85	-21.19	22.55	6.53	2606	0.38	-6.5	4
MW-04	8/15/2011	1	61.89	Not Present	0.00	40.85	-21.04	23.79	6.5	2635	0.34	23.9	4
MW-04	10/17/2011	1	61.81	Not Present	0.00	40.85	-20.96	23.04	6.59	2622	0.48	21.7	3
MW-04	1/24/2012	1	61.77	Not Present	0.00	40.85	-20.92	23.38	6.63	2640	0.34	11.4	4
MW-04	4/16/2012	1	61.51	Not Present	0.00	40.85	-20.66	23	6.72	2460	0.25	-5.7	5
MW-04	8/13/2012	1	61.25	Not Present	0.00	40.85	-20.40	23.5	6.44	2707	0.21	-9.7	3
MW-04	10/22/2012	1	61.28	Not Present	0.00	40.85	-20.43	23.2	6.68	2660	0.64	-50.1	3
MW-05	8/13/2009	1	53.42	Not Present	0.00	32.32	-21.10	24.04	6.6	1171	0.34	-130	46
MW-05	11/13/2009	1	53.39	Not Present	0.00	32.32	-21.07	23.41	6.53	1173	0.67	-39.8	8
MW-05	2/4/2010	1	53.47	Not Present	0.00	32.32	-21.15	22.73	6.39	1277	0.5	-80.1	4
MW-05	5/27/2010	1	53.11	Not Present	0.00	32.32	-20.79	24.04	6.38	1036	0.59	-79.4	5
MW-05	7/6/2010	1	53.31	Not Present	0.00	32.31	-21.00	23.8	6.53	1249	0.13	-94.4	3
MW-05	10/20/2010	1	52.86	Not Present	0.00	32.31	-20.55	23.5	6.23	1212	0.25	-105.7	6
MW-05	2/3/2011	1	53.07	Not Present	0.00	32.31	-20.76	23.53	6.37	1237	0.62	-82.4	10
MW-05	4/20/2011	1	52.82	Not Present	0.00	32.31	-20.51	23.95	6.4	1167	0.38	-120.1	2
MW-05	8/15/2011	1	52.53	Not Present	0.00	32.31	-20.22	25.07	6.39	1141	0.37	-103.3	7
MW-05	10/17/2011	1	52.57	Not Present	0.00	32.31	-20.26	24.53	6.36	1136	0.4	-114.2	4
MW-05	1/24/2012	1	52.4	Not Present	0.00	32.31	-20.09	23.65	6.43	1178	0.55	-139.6	12
MW-05	4/16/2012	1	52.3	Not Present	0.00	32.31	-19.99	23.8	6.4	1192	0.24	-102.3	13
MW-05	8/13/2012	1	52.04	Not Present	0.00	32.31	-19.73	25.5	6.16	1369	0.26	-115.8	11
MW-05	10/22/2012	1	52.12	Not Present	0.00	32.31	-19.81	24.6	6.35	1188	0.46	-109.5	6
MW-06	8/13/2009	1	58.77	Not Present	0.00	35.62	-23.15	23.55	7.1	2055	0.33	-165.2	4
MW-06	11/13/2009	1	58.71	Not Present	0.00	35.62	-23.09	23.28	7.02	2088	0.4	-96.2	4
MW-06	2/4/2010	1	58.82	Not Present	0.00	35.62	-23.20	21.77	6.85	2125	0.51	-91	5
MW-06	5/27/2010	1	58.06	Not Present	0.00	35.62	-22.44	23.09	6.87	2080	0.45	-69.7	40
MW-06	7/6/2010	1	58.35	Not Present	0.00	35.59	-22.76	23.03	7.01	2092	0.33	-120.5	3
MW-06	10/20/2010	1	57.98	Not Present	0.00	35.59	-22.39	22.5	6.8	1967	0.28	-125.9	5
MW-06	2/4/2011	1	57.96	Not Present	0.00	35.59	-22.37	22.4	6.9	1991	0.58	-103.8	3
MW-06	4/20/2011	1	58.07	Not Present	0.00	35.59	-22.48	22.6	7.4	1908	0.57	-147.7	3
MW-06	8/15/2011	1	57.82	Not Present	0.00	35.59	-22.23	23.38	6.77	2085	0.4	-77.4	2
MW-06	10/17/2011	1	57.79	Not Present	0.00	35.59	-22.20	22.48	6.78	1983	0.41	-98.2	4
MW-06	1/24/2012	1	57.78	Not Present	0.00	35.59	-22.19	22.22	6.94	1852	0.65	-139.3	6
MW-06	4/16/2012	1	56.29	Not Present	0.00	35.59	-20.70	22.81	7.05	1884	0.56	-126.2	5
MW-06	8/13/2012	1	57.26	Not Present	0.00	35.59	-21.67	24.3	6.81	1988	0.19	-131	2
MW-06	10/22/2012	1	57.42	Not Present	0.00	35.59	-21.83	23.5	6.9	1861	0.36	-131.8	3

Table 4
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Third Quarter 2012
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Carson, California

Monitoring Well No.	GROUNDWATER LEVELS							GROUNDWATER SAMPLING FIELD PARAMETERS					
	Gauging Date	Notes	Depth to Groundwater (feet btoc)	Depth to Separate Phase Product (feet btoc)	Product Thickness (feet)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temperature (Celsius)	pH	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	O.R.P. (mV)	Turbidity (NTU)
MW-07	7/6/2010	1	58.87	Not Present	0.00	38.69	-20.18	22.95	6.85	6167	0.59	-70.2	16
MW-07	10/20/2010	1	58.46	Not Present	0.00	38.69	-19.77	22.6	6.83	5522	0.19	-75.4	20
MW-07	2/3/2011	1	58.74	Not Present	0.00	38.69	-20.05	22.54	6.69	6963	0.58	-47.9	21
MW-07	4/20/2011	1	58.41	Not Present	0.00	38.69	-19.72	22.81	6.63	9569	0.47	-39.9	35
MW-07	8/15/2011	1	58.04	Not Present	0.00	38.69	-19.35	23.55	6.46	11572	0.39	9.1	38
MW-07	10/17/2011	1	58.1	Not Present	0.00	38.69	-19.41	22.85	6.35	13377	0.9	-2.9	38
MW-07	1/24/2012	1	57.89	Not Present	0.00	38.69	-19.20	22.73	6.51	14323	1.43	29	76
MW-07	4/16/2012	1	57.68	Not Present	0.00	38.69	-18.99	23.11	6.78	10789	0.61	-31	65
MW-07	8/13/2012	1	57.53	Not Present	0.00	38.69	-18.84	24	6.38	12071	0.36	-13.2	45
MW-07	10/22/2012	1	57.48	Not Present	0.00	38.69	-18.79	23.1	6.46	10188	0.87	-37.2	69
MW-08	7/6/2010	1	59.75	Not Present	0.00	38.82	-20.93	23.23	6.84	3235	0.55	-129.3	7
MW-08	10/20/2010	1	59.4	Not Present	0.00	38.82	-20.58	22.9	6.68	3161	0.23	-140.1	4
MW-08	2/3/2011	1	59.54	Not Present	0.00	38.82	-20.72	22.89	6.66	3121	0.77	-109.4	6
MW-08	4/20/2011	1	59.32	Not Present	0.00	38.82	-20.50	23.3	6.7	2993	0.3	-130	7
MW-08	8/15/2011	1	59.02	Not Present	0.00	38.82	-20.20	23.99	6.66	3029	1.03	-124.6	3
MW-08	10/17/2011	1	59.02	Not Present	0.00	38.82	-20.20	23.09	6.65	3045	0.4	-125.3	5
MW-08	1/24/2012	1	58.92	Not Present	0.00	38.82	-20.10	22.58	6.68	3114	0.29	-140.6	4
MW-08	4/16/2012	1	58.71	Not Present	0.00	38.82	-19.89	23.6	6.78	3517	0.19	-122.2	4
MW-08	8/13/2012	1	58.47	Not Present	0.00	38.82	-19.65	25.1	6.55	3508	0.87	-103.9	10
MW-08	10/22/2012	1	58.44	Not Present	0.00	38.82	-19.62	24.4	6.71	3023	0.49	-128.6	3
MW-09	7/6/2010	1	64.41	Not Present	0.00	42.44	-21.97	22.38	6.94	2771	0.59	-119.1	12
MW-09	10/20/2010	1	64.21	Not Present	0.00	42.44	-21.77	22.6	7.16	2747	0.44	-127.7	33
MW-09	2/3/2011	1	64.28	Not Present	0.00	42.44	-21.84	22.49	6.93	2601	0.76	-37.9	37
MW-09	4/20/2011	1	64.14	Not Present	0.00	42.44	-21.70	21.95	6.89	2574	0.57	-123.6	37
MW-09	8/15/2011	1	64	Not Present	0.00	42.44	-21.56	22.96	6.75	2659	0.54	-89.5	17
MW-09	10/17/2011	1	63.91	Not Present	0.00	42.44	-21.47	22.42	6.84	2689	0.53	-95.5	18
MW-09	1/24/2012	1	63.9	Not Present	0.00	42.44	-21.46	22.08	6.81	2719	0.5	-110.4	25
MW-09	4/16/2012	1	63.58	Not Present	0.00	42.44	-21.14	22.5	6.89	2752	0.28	-112.5	25
MW-09	8/13/2012	1	63.31	Not Present	0.00	42.44	-20.87	24.5	6.79	2602	0.69	-33.4	45
MW-09	10/22/2012	1	63.45	Not Present	0.00	42.44	-21.01	22.6	6.89	2612	0.9	-81	58
MW-10	7/6/2010	1	68.44	Not Present	0.00	45.2	-23.24	22.46	7.03	3043	0.39	-104.3	14
MW-10	10/20/2010	1	68.15	Not Present	0.00	45.2	-22.95	22.3	7	2811	0.4	-120.4	81
MW-10	2/3/2011	1	68.37	Not Present	0.00	45.2	-23.17	22.3	6.92	3464	0.8	-92.1	47
MW-10	4/20/2011	1	68.32	Not Present	0.00	45.2	-23.12	22.29	7.04	3431	0.31	-142	13
MW-10	8/15/2011	1	68.04	Not Present	0.00	45.2	-22.84	23.59	6.75	3356	0.46	-95.9	42
MW-10	10/17/2011	1	67.99	Not Present	0.00	45.2	-22.79	22.82	6.95	3296	0.46	-87	122
MW-10	1/24/2012	1	67.98	Not Present	0.00	45.2	-22.78	22.57	6.94	3059	0.34	-65.3	149
MW-10	4/16/2012	1	67.4	Not Present	0.00	45.2	-22.20	22.8	6.86	3086	0.29	-119	85
MW-10	8/13/2012	1	67.37	Not Present	0.00	45.2	-22.17	24.8	6.78	3474	0.64	-83.5	135
MW-10	10/22/2012	1	67.62	Not Present	0.00	45.2	-22.42	23	6.96	3424	0.5	-96	36

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Monitoring Well No.	GROUNDWATER LEVELS							GROUNDWATER SAMPLING FIELD PARAMETERS					
	Gauging Date	Notes	Depth to Groundwater (feet btoc)	Depth to Separate Phase Product (feet btoc)	Product Thickness (feet)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temperature (Celsius)	pH	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	O.R.P. (mV)	Turbidity (NTU)
MW-11	7/6/2010	1	59.78	Not Present	0.00	36.07	-23.71	23.06	7.17	2269	0.67	-87.2	10
MW-11	10/20/2010	1	59.36	Not Present	0.00	36.07	-23.29	22.6	7.32	2222	1.87	-131.7	48
MW-11	2/3/2011	1	59.69	Not Present	0.00	36.07	-23.62	22.65	7.11	2215	0.9	-60.1	140
MW-11	4/20/2011	1	59.69	Not Present	0.00	36.07	-23.62	21.85	7.03	2093	0.75	-102.1	239
MW-11	8/15/2011	1	59.2	Not Present	0.00	36.07	-23.13	23.51	6.95	2131	0.68	-75	208
MW-11	10/17/2011	1	59.23	Not Present	0.00	36.07	-23.16	21.4	6.92	2262	0.82	-81.7	55
MW-11	1/24/2012	1	59.12	Not Present	0.00	36.07	-23.05	22.78	6.88	2246	0.56	-90.4	20
MW-11	4/16/2012	1	58.51	Not Present	0.00	36.07	-22.44	22.1	6.99	2313	0.25	-109.8	34
MW-11	8/13/2012	1	58.74	Not Present	0.00	36.07	-22.67	24.5	6.84	2242	0.34	-90	37
MW-11	10/22/2012	1	58.9	Not Present	0.00	36.07	-22.83	23.5	7.07	2306	0.39	-120.1	8
MW-12	3/4/2011	1	53.52	Not Present	0.00	33.33	-20.19	22.1	6.21	4586	0.68	-106	3
MW-12	4/20/2011	1	53.42	Not Present	0.00	33.33	-20.09	22.32	6.38	4980	0.54	-111.9	23
MW-12	8/15/2011	1	52.13	Not Present	0.00	33.33	-18.80	23.26	6.23	5935	1.03	-87.1	23
MW-12	10/17/2011	1	53.19	Not Present	0.00	33.33	-19.86	22.78	6.24	6438	1.09	-85.9	9
MW-12	1/24/2012	1	53.03	Not Present	0.00	33.33	-19.70	23.34	6.33	7900	0.36	-108	16
MW-12	4/16/2012	1	52.86	Not Present	0.00	33.33	-19.53	22.78	6.35	8610	0.72	-103.5	8
MW-12	8/13/2012	1	52.64	Not Present	0.00	33.33	-19.31	25.6	6.04	10399	0.19	-101.1	7
MW-12	10/22/2012	1	52.63	Not Present	0.00	33.33	-19.30	23.1	6.18	8752	0.56	-104.2	6
MW-13	3/4/2011	1	55.55	Not Present	0.00	33.64	-21.91	22.52	6.44	2368	0.65	-101.8	3
MW-13	4/20/2011	1	55.55	Not Present	0.00	33.64	-21.91	22.39	6.58	2400	0.3	-114	5
MW-13	8/15/2011	1	55.33	Not Present	0.00	33.64	-21.69	23.77	6.5	2306	0.75	-101.1	19
MW-13	10/17/2011	1	55.26	Not Present	0.00	33.64	-21.62	22.75	6.49	2717	0.38	-113.9	8
MW-13	1/24/2012	1	55.23	Not Present	0.00	33.64	-21.59	22.29	6.55	2683	0.35	-119.7	4
MW-13	4/16/2012	1	55.02	Not Present	0.00	33.64	-21.38	23.7	6.64	2470	0.22	-125.8	15
MW-13	8/13/2012	1	54.75	Not Present	0.00	33.64	-21.11	27.8	6.35	3063	0.25	-118.7	5
MW-13	10/22/2012	1	54.9	Not Present	0.00	33.64	-21.26	24.6	6.59	2648	0.5	-110.2	5
MW-14	4/20/2011	1	62.04	Not Present	0.00	41.66	-20.38	23.47	6.62	3450	0.49	-109.1	57
MW-14	8/15/2011	1	61.82	Not Present	0.00	41.66	-20.16	24.73	6.47	3895	0.52	-106.8	9
MW-14	10/17/2011	1	61.74	Not Present	0.00	41.66	-20.08	22.96	6.46	3659	0.96	-90.1	35
MW-14	1/24/2012	1	61.7	Not Present	0.00	41.66	-20.04	22.18	6.63	2905	0.34	-133.3	37
MW-14	4/16/2012	1	61.43	Not Present	0.00	41.66	-19.77	23.3	6.84	2364	0.25	-118.1	14
MW-14	8/13/2012	1	61.23	Not Present	0.00	41.66	-19.57	27.2	6.43	3599	0.56	-105.3	23
MW-14	10/22/2012	1	61.34	Not Present	0.00	41.66	-19.68	24.3	6.58	3470	0.39	-119.9	7
MW-15	4/20/2011	1	52.76	Not Present	0.00	32.52	-20.24	22.65	7.07	1864	1.08	-100.3	10
MW-15	8/15/2011	1	52.56	Not Present	0.00	32.52	-20.04	25.17	6.41	2035	0.9	-92.7	10
MW-15	10/17/2011	1	52.61	Not Present	0.00	32.52	-20.09	23.37	6.5	1993	0.81	-97.4	3
MW-15	1/24/2012	1	52.5	Not Present	0.00	32.52	-19.98	23.45	6.5	1943	0.56	-100.8	5
MW-15	4/16/2012	1	52.31	Not Present	0.00	32.52	-19.79	24.7	6.57	1828	0.27	-102.5	15
MW-15	8/13/2012	1	52.06	Not Present	0.00	32.52	-19.54	25.6	6.35	1806	0.24	-96.5	38
MW-15	10/22/2012	1	51.98	Not Present	0.00	32.52	-19.46	23.8	6.49	1687	0.58	-89.5	16
MW-16	8/15/2011	1	56.73	Not Present	0.00	34.61	-22.12	24.12	6.72	2010	0.37	-76.5	45
MW-16	10/17/2011	1	56.68	Not Present	0.00	34.61	-22.07	23.7	6.79	2038	0.33	-86	65
MW-16	1/24/2012	1	56.68	Not Present	0.00	34.61	-22.07	21.71	6.64	1990	0.65	-67.9	181
MW-16	4/16/2012	1	56.27	Not Present	0.00	34.61	-21.66	22.1	6.74	1991	0.22	-45.5	212
MW-16	8/13/2012	1	56.19	Not Present	0.00	34.61	-21.58	25.8	6.55	2458	0.2	-73	160
MW-16	10/22/2012	1	56.4	Not Present	0.00	34.61	-21.79	22.7	6.7	2090	0.76	-68	178

Table 4
Historical Groundwater Elevations and Parameters
Third Quarter 2012
Former Kast Property
Carson, California

Monitoring Well No.	GROUNDWATER LEVELS							GROUNDWATER SAMPLING FIELD PARAMETERS					
	Gauging Date	Notes	Depth to Groundwater (feet btoc)	Depth to Separate Phase Product (feet btoc)	Product Thickness (feet)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temperature (Celsius)	pH	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	O.R.P. (mV)	Turbidity (NTU)
MW-17	4/20/2011	1	53.09	Not Present	0.00	31.97	-21.12	23	6.12	1071	2.12	53.6	185
MW-17	8/15/2011	1	52.89	Not Present	0.00	31.97	-20.92	25.36	5.94	1189	0.62	52.7	201
MW-17	10/17/2011	1	52.89	Not Present	0.00	31.97	-20.92	23.89	5.99	1252	0.58	36.5	161
MW-17	1/24/2012	1	52.88	Not Present	0.00	31.97	-20.91	23.61	6.07	1293	0.59	22.8	120
MW-17	4/16/2012	1	52.58	Not Present	0.00	31.97	-20.61	23.9	6.12	1163	0.24	44.1	132
MW-17	8/13/2012	1	52.38	Not Present	0.00	31.97	-20.41	26	5.97	1244	1.03	123.6	183
MW-17	10/22/2012	1	52.38	Not Present	0.00	31.97	-20.41	24.3	5.89	1140	0.63	69.8	140
MW-G01D	8/15/2011	1	62.52	Not Present	0.00	41.61	-20.91	25.23	9.7	1378	0.54	-153.5	409
MW-G01D	10/17/2011	1	62.66	Not Present	0.00	41.61	-21.05	22.4	10.16	1341	0.65	-150.7	50
MW-G01D	1/24/2012	1	62.41	Not Present	0.00	41.61	-20.80	25.31	7.1	1243	0.63	-184.3	10
MW-G01D	4/16/2012	1	61.92	Not Present	0.00	41.61	-20.31	26.6	9.48	1232	1.31	-186.1	3
MW-G01D	8/13/2012	1	62.08	Not Present	0.00	41.61	-20.47	27.2	9.62	1094	0.36	-63.1	17
MW-G01D	10/22/2012	1	62.14	Not Present	0.00	41.61	-20.53	24	9.3	1116	0.57	-69.2	3
MW-G01S	8/15/2011	1	62.47	Not Present	0.00	41.59	-20.88	25.63	8.85	1916	0.6	-137.4	46
MW-G01S	10/17/2011	1	62.64	Not Present	0.00	41.59	-21.05	24.51	7.99	1519	0.37	-141.5	1
MW-G01S	1/24/2012	1	62.45	Not Present	0.00	41.59	-20.86	24.39	7.81	2000	0.28	-149.9	5
MW-G01S	4/16/2012	1	61.82	Not Present	0.00	41.59	-20.23	24.7	7.53	1921	0.32	-140.4	3
MW-G01S	8/13/2012	1	62.08	Not Present	0.00	41.59	-20.49	25.3	7.41	1862	1.03	16.5	5
MW-G01S	10/22/2012	1	62.12	Not Present	0.00	41.59	-20.53	24.6	7.49	2015	0.57	-38.2	3
MW-G02D	8/15/2011	1	53.24	Not Present	0.00	32.58	-20.66	25.53	8.4	1412	0.54	-178.7	3
MW-G02D	10/17/2011	1	53.35	Not Present	0.00	32.58	-20.77	26.4	8.71	1357	0.57	-198.4	1
MW-G02D	1/24/2012	1	53.15	Not Present	0.00	32.58	-20.57	25.01	7.92	1306	0.35	-210.3	1
MW-G02D	4/16/2012	1	52.72	Not Present	0.00	32.58	-20.14	26.1	7.89	1270	0.66	-177.3	2
MW-G02D	8/13/2012	1	52.86	Not Present	0.00	32.58	-20.28	27	7.71	1238	0.29	-171.2	1
MW-G02D	10/22/2012	1	52.89	Not Present	0.00	32.58	-20.31	23.2	7.75	1314	0.54	-128.2	2
MW-G02S	8/15/2011	1	53.13	Not Present	0.00	32.55	-20.58	23.94	8.23	1455	0.59	-158.1	3
MW-G02S	10/17/2011	1	53.31	Not Present	0.00	32.55	-20.76	22.39	7.29	1631	0.67	-136.2	1
MW-G02S	1/24/2012	1	53.05	Not Present	0.00	32.55	-20.50	24.96	9.82	1478	0.24	-167.1	1
MW-G02S	4/16/2012	1	52.61	Not Present	0.00	32.55	-20.06	24.2	9.13	1480	0.22	-143.5	2
MW-G02S	8/13/2012	1	52.81	Not Present	0.00	32.55	-20.26	24.6	8.68	1453	0.2	-117.5	4
MW-G02S	10/22/2012	1	52.83	Not Present	0.00	32.55	-20.28	23.4	8.28	1547	0.31	-32	3
MW-G03D	8/15/2011	1	56.85	Not Present	0.00	34.6	-22.25	25.33	7.66	1797	0.76	-157	2
MW-G03D	10/17/2011	1	56.92	Not Present	0.00	34.6	-22.32	22.28	7.67	1971	0.49	-212	1
MW-G03D	1/24/2012	1	56.72	Not Present	0.00	34.6	-22.12	24.05	7.47	1956	0.33	-208.9	1
MW-G03D	4/16/2012	1	56.16	Not Present	0.00	34.6	-21.56	21.7	7.63	1739	0.33	-221.6	2
MW-G03D	8/13/2012	1	56.38	Not Present	0.00	34.6	-21.78	24.1	7.44	1702	0.4	-190.2	2
MW-G03D	10/22/2012	1	56.57	Not Present	0.00	34.6	-21.97	23.7	7.6	1572	0.54	-170.1	3
MW-G03S	8/15/2011	1	56.8	Not Present	0.00	34.57	-22.23	23.45	7.28	1916	0.83	-97.3	1
MW-G03S	10/17/2011	1	59.84	Not Present	0.00	34.57	-25.27	22.39	7.29	1631	0.67	-136.2	1
MW-G03S	1/24/2012	1	56.74	Not Present	0.00	34.57	-22.17	21.05	7.26	1466	0.51	-125.1	1
MW-G03S	4/16/2012	1	56.12	Not Present	0.00	34.57	-21.55	21.4	7.4	1340	0.46	-156.9	2
MW-G03S	8/13/2012	1	56.33	Not Present	0.00	34.57	-21.76	24.1	7.26	1321	0.37	126.4	3
MW-G03S	10/22/2012	1	56.68	Not Present	0.00	34.57	-22.11	22.1	7.39	1242	0.49	-114	3

Table 4
Historical Groundwater Elevations and Parameters
Third Quarter 2012
Former Kast Property
Carson, California

Monitoring Well No.	GROUNDWATER LEVELS							GROUNDWATER SAMPLING FIELD PARAMETERS					
	Gauging Date	Notes	Depth to Groundwater (feet btoc)	Depth to Separate Phase Product (feet btoc)	Product Thickness (feet)	Casing Elevation (MSL)	Groundwater Elevation (MSL)	Temperature (Celsius)	pH	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	O.R.P. (mV)	Turbidity (NTU)
MW-G04D	8/15/2011	1	52.91	Not Present	0.00	32.09	-20.82	25.25	7.99	1382	0.79	-93.7	3
MW-G04D	10/17/2011	1	53.34	Not Present	0.00	32.09	-21.25	24.09	7.79	1370	0.48	-128.7	1
MW-G04D	1/24/2012	1	53.18	Not Present	0.00	32.09	-21.09	24.36	7.5	1339	0.51	-144.3	2
MW-G04D	4/16/2012	1	52.64	Not Present	0.00	32.09	-20.55	25.3	7.64	1354	0.43	-150.7	2
MW-G04D	8/13/2012	1	52.82	Not Present	0.00	32.09	-20.73	27.8	7.48	1320	0.54	-63.1	2
MW-G04D	10/22/2012	1	53	Not Present	0.00	32.09	-20.91	23.6	7.59	1432	0.53	-133.2	2
MW-G04S	8/15/2011	1	52.27	Not Present	0.00	32.09	-20.18	24.93	7.92	1292	0.46	-147.1	4
MW-G04S	10/17/2011	1	53.39	Not Present	0.00	32.09	-21.30	23.56	8.51	1013	0.43	-169.9	3
MW-G04S	1/24/2012	1	53.17	Not Present	0.00	32.09	-21.08	25.33	8.08	1010	0.66	-180.8	1
MW-G04S	4/16/2012	1	52.69	Not Present	0.00	32.09	-20.60	25.8	7.98	871	0.36	-200.3	2
MW-G04S	8/13/2012	1	52.83	Not Present	0.00	32.09	-20.74	26.9	8.21	885	0.5	-169	3
MW-G04S	10/22/2012	1	52.95	Not Present	0.00	32.09	-20.86	23.7	7.93	928	0.44	-137.2	2

Explanation/Notes: 1 - Low-Flow Sample Collected
2 - Well not sampled due to presence of separate phase hydrocarbons.
Groundwater elevation adjusted for free product using a specific gravity of 0.9153
based on analyses performed by PTS Laboratories of Santa Fe Springs, California
NA - not analyzed/not measured
NS- not surveyed
MSL - Mean Sea Level
btoc - Below top of casing
Groundwater Elevation reference to MSL
Groundwater Elevation = Casing Elevation - (Depth to Groundwater - (Specific Gravity x Product Thickness)).

µS/cm - microSiemens per centimeter
mg/L - milligrams per liter
O.R.P. - Oxidation Reduction Potential
mV - millivolts
NTU - nephelometric turbidity units

Appendix C-4

URS Appendix E-1

Fourth Quarter 2012 Groundwater Monitoring Report,
***October Through December 2012, Former Kast Property, Carson, California*.**
January 15, 2013

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-02
SAMPLE DATE			8/13/2009	11/13/2009	2/4/2010	5/27/2010	7/7/2010	10/21/2010	2/4/2011	4/20/2011	4/20/2011	8/19/2011	10/20/2011	1/27/2012	4/18/2012	8/16/2012	10/25/2012	8/13/2009
SAMPLE NAME			MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01-DUP	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-02
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-08-1256	09-11-1190	10-02-0469	10-05-2183	10-07-0427	10-10-1880	11-02-0356	11-04-1297	11-04-1297	11-08-1422	11-10-1463	12-01-1671	12-04-1162	12-08-1193	12-10-1823	09-08-1256
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	4	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	0.52 J	< 2.0	0.46 J	< 1.0	0.44 J	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	0.39 J	< 2.0	0.62 J	< 1.0	0.60 J	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	5.8	4.4	4.9	9.2	8.9	11	11	10	9.2	6	14	15	15	5.2	15	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	11	7.5	8	13	14	17	17	14	15	11	25	23	22	7.6	20	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	11
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	0.38 J	0.81	0.71	1.2	0.94 J	1.1	1.2	0.52	1.8	2	2.4	0.51	3.5	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	1.4
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 20	< 20	< 40	< 20	< 20	< 20	< 50
Benzene	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	0.23 J	< 1.0	0.22 J	< 0.50	0.17 J	82
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	3.1	2.2	2.4	4.1	3.8	4.5	4.3	3.9	3.7	2.6	5.2	4.7	5.3	2.3	5.5	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	71	55	79	130	130	140	160	140	140	88	170	220	200	76	230	< 1.0
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	4
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 200	< 200	< 200	< 200	< 100	< 100	< 200	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	23
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 10	1.1 J	< 20	0.84 J	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	4.6 J
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	0.74 J
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	3
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	0.96 J
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 20	< 10	< 10	< 20	< 10	< 10	< 10	4.6 J
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	58	29	74	100	110	140	120	130	130	100	150	140	190	53	150	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	0.48 J	0.82 J	1.5	1.4	2.4	1.8 J	3.7	2.8	0.52 J	0.63 J	3.1	1.7	1.1	1	< 1.0
Trichloroethene	SW8260B	UG/L	130	90	150	210	220	230	260	260	250	150	260	280	290	110	310	< 1.0
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-02
SAMPLE DATE			8/13/2009	11/13/2009	2/4/2010	5/27/2010	7/7/2010	10/21/2010	2/4/2011	4/20/2011	4/20/2011	8/19/2011	10/20/2011	1/27/2012	4/18/2012	8/16/2012	10/25/2012	8/13/2009
SAMPLE NAME			MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01-DUP	MW-01	MW-01	MW-01	MW-01	MW-01	MW-01	MW-02
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-08-1256	09-11-1190	10-02-0469	10-05-2183	10-07-0427	10-10-1880	11-02-0356	11-04-1297	11-04-1297	11-08-1422	11-10-1463	12-01-1671	12-04-1162	12-08-1193	12-10-1823	09-08-1256
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	39
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	0.071 J	< 0.20	--	--	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	0.12 J	< 0.20	--	--	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	--	--	--	--	< 0.20	< 0.20	--	--	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	--	--	--	--	< 0.20	< 0.20	--	--	--	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	--	--	--	--	--	< 0.20	< 0.20	--	--	--	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	0.14 BJ	0.048 BJ	--	--	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	< 10	--	--	--	--	--	--	< 10	< 10	--	--	--	--	--	--	< 10
1,4-Dichlorobenzene	SW8270C	UG/L	< 10	--	--	--	--	--	--	< 10	< 10	--	--	--	--	--	--	< 10
1-Methylnaphthalene	SW8270C	UG/L	< 10	--	--	--	--	--	--	< 10	< 10	--	--	--	--	--	--	< 10
2,4-Dimethylphenol	SW8270C	UG/L	< 10	--	--	--	--	--	--	< 10	< 10	--	--	--	--	--	--	< 10
3/4-Methylphenol	SW8270C	UG/L	< 10	--	--	--	--	--	--	< 10	< 10	--	--	--	--	--	--	< 10
Benzoic Acid	SW8270C	UG/L	< 50	--	--	--	--	--	--	< 50	< 50	--	--	--	--	--	--	< 50
Naphthalene	SW8270C	UG/L	< 10	--	--	--	--	--	--	< 10	< 10	--	--	--	--	--	--	< 10
Phenol	SW8270C	UG/L	< 10	--	--	--	--	--	--	< 10	< 10	--	--	--	--	--	--	< 10
TPH as Diesel	SW8015B	UG/L	36	46 J	72	100	87	110	67	85	55	44 HDJ	62 HD	48 J	74	140 HD	67 HD	120
TPH as Gasoline	SW8015B	UG/L	83	< 50	67	140	100	150	130	180	170	84 HD	230 HD	230 HD	180 HD	70 HD	140 HD	630
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	220 HDJ	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	ND	--	< 50	< 50	< 50	5.7 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	8.1 J	16 J	ND
Carbon Chain C7	SW8015B	UG/L	4.8	--	< 50	< 50	< 50	16 J	20 J	< 50	< 50	9.7 J	18 J	16 J	20 J	16 J	27 J	ND
Carbon Chain C8	SW8015B	UG/L	5.5	--	11 J	< 50	< 50	16 J	21 J	18 J	23 J	11 J	20 J	16 J	23 J	17 J	31 J	ND
Carbon Chain C9-C10	SW8015B	UG/L	33	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	ND
Carbon Chain C11-C12	SW8015B	UG/L	0.52	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	0.54
Carbon Chain C13-C14	SW8015B	UG/L	ND	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	2.6
Carbon Chain C15-C16	SW8015B	UG/L	ND	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	25
Carbon Chain C17-C18	SW8015B	UG/L	0.94	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	27
Carbon Chain C19-C20	SW8015B	UG/L	0.32	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	23
Carbon Chain C21-C22	SW8015B	UG/L	4.4	--	< 50	< 50	< 50	< 50	18 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	17
Carbon Chain C23-C24	SW8015B	UG/L	13	--	18 J	< 50	< 50	30 J	< 50	< 50	< 50	19 J	< 50	< 50	18 J	18 J	20 J	15
Carbon Chain C25-C28	SW8015B	UG/L	15	--	19	< 50	< 50	32 J	21 J	23 J	18 J	< 50	20 J	17 J	21 J	110	28 J	5.6
Carbon Chain C29-C32	SW8015B	UG/L	8	--	10	< 50	< 50	25 J	21 J	21 J	17 J	13 J	14 J	11 J	19 J	25 J	16 J	3.5
Carbon Chain C33-C36	SW8015B	UG/L	0.48	--	< 50	< 50	< 50	10 J	9.4 J	< 50	< 50	< 50	11 J	< 50	< 50	15 J	< 50	0.019
Carbon Chain C37-C40	SW8015B	UG/L	ND	--	< 50	< 50	< 50	< 50	7.7 J	< 50	< 50	8.5 J	23 J	< 50	< 50	7.8 J	< 50	ND
Carbon Chain C41-C44	SW8015B	UG/L	ND	--	< 50	< 50	< 50	< 50	8.2 J	< 50	< 50	< 50	14 J	< 50	< 50	< 50	< 50	ND
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	86	--	59	140	< 50	140	130	62	58	60	120	60	100	210	140	120

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-04
SAMPLE DATE			11/13/2009	2/4/2010	2/4/2010	5/28/2010	5/28/2010	7/7/2010	10/20/2010	2/3/2011	4/21/2011	8/19/2011	10/20/2011	1/27/2012	4/18/2012	8/16/2012	10/25/2012	8/13/2009
SAMPLE NAME			MW-02	MW-02	DUP-01	MW-02	DUP-1	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-04
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-11-1190	10-02-0469	10-02-0469	10-05-2273	10-05-2273	10-07-0427	10-10-1693	11-02-0251	11-04-1395	11-08-1422	11-10-1463	12-01-1671	12-04-1162	12-08-1193	12-10-1823	09-08-1256
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	**0.53 J**	**1**	**0.96 J**	< 1.0	< 1.0	< 1.0	**16**	**16**	**18**	**13**	**3.6**	**10**	**9.5**	**13**	**8.4**	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	**0.32 J**	**0.30 J**	< 1.0	< 1.0	< 1.0	**7.3**	**5.9**	**7.2**	**7.5**	**2.9**	**4.5**	**4.1**	**5.6**	**3.8**	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	**23 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 50
Benzene	SW8260B	UG/L	**23**	**26**	**24**	**6.5**	**7**	**6.3**	**17**	**20**	**16**	**22**	**6.7**	**12**	**8.5**	**11**	**7.5**	**0.53**
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.7**
Cumene (Isopropylbenzene)	SW8260B	UG/L	**0.70 J**	**1.2**	**1.1**	< 1.0	< 1.0	< 1.0	**1.8**	**2.8**	**3.2**	**2.6**	< 1.0	**1.1**	**1**	**1.7**	**1.4**	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	**6**	**4.5**	**4.5**	**1.3**	**1.5**	**2.9**	**14**	**18**	**18**	**16**	**4**	**9**	**9.2**	**10**	**6.8**	< 1.0
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**4.2 J**	**3.7 J**	**3.6 J**	< 10	< 10	< 10	< 10	**2.8 J**	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.69 J**	**0.59 J**	**0.71 J**	**0.53 J**	**0.38 J**	**0.31 J**	**0.33 J**	**0.44 J**	**0.34 J**	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.71 J**	**0.67 J**	**0.84 J**	**0.68 J**	**0.34 J**	**0.46 J**	**0.41 J**	**0.57 J**	**0.39 J**	< 1.0
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.4**	**2.7**	**3.4**	**2.7**	**0.64 J**	**1.2**	**1.3**	**1.7**	**1.2**	< 1.0
sec-Butylbenzene	SW8260B	UG/L	< 1.0	**0.37 J**	**0.35 J**	< 1.0	< 1.0	< 1.0	**0.63 J**	**0.76 J**	**0.87 J**	**0.66 J**	**0.26 J**	**0.31 J**	**0.31 J**	**0.46 J**	**0.38 J**	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	**4.2 J**	**4.4 J**	**5.4 J**	< 10	< 10	< 10	< 10	< 10	**15**	< 10	< 10	< 10	< 10	**9.2 J**	**10**	**17**
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.49 J**	< 1.0	< 1.0	**0.29 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2**
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-04
SAMPLE DATE			11/13/2009	2/4/2010	2/4/2010	5/28/2010	5/28/2010	7/7/2010	10/20/2010	2/3/2011	4/21/2011	8/19/2011	10/20/2011	1/27/2012	4/18/2012	8/16/2012	10/25/2012	8/13/2009
SAMPLE NAME			MW-02	MW-02	DUP-01	MW-02	DUP-1	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-04
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-11-1190	10-02-0469	10-02-0469	10-05-2273	10-05-2273	10-07-0427	10-10-1693	11-02-0251	11-04-1395	11-08-1422	11-10-1463	12-01-1671	12-04-1162	12-08-1193	12-10-1823	09-08-1256
Xylenes, Total	SW8260B	UG/L	1.8	3.7	3.5	< 1.0	< 1.0	< 1.0	55	54	61	48	29	40	33	38	27	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	0.19 J	--	--	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	0.12 J	--	--	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	1.1 B	--	--	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	--	--	2.0 J	--	--	--	--	--	--	< 10
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	--	--	4.7 J	--	--	--	--	--	--	< 10
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
3/4-Methylphenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
Benzoic Acid	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 50	--	--	--	--	--	--	< 50
Naphthalene	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
Phenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
TPH as Diesel	SW8015B	UG/L	98	< 50	< 50	55	< 50	75	160	130	95	110 HD	81 HD	91 HD	130	190 HD	210 HD	200
TPH as Gasoline	SW8015B	UG/L	120	110	120	< 50	< 50	< 50	500	600	640	670 HD	410	430	470	420	370	< 50
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	20 J	< 50	< 50	15 J	7.2 J	< 50	9.0 J	21 J	26 J	ND
Carbon Chain C7	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	18 J	26 J	< 50	18 J	16 J	22 J	27 J	20 J	18 J	ND
Carbon Chain C8	SW8015B	UG/L	--	18 J	14 J	< 50	< 50	< 50	54	70	< 50	48 J	30 J	42 J	52	51	46 J	ND
Carbon Chain C9-C10	SW8015B	UG/L	--	21 J	23 J	< 50	< 50	< 50	71	83	< 50	67	35 J	51	55	72	88	ND
Carbon Chain C11-C12	SW8015B	UG/L	--	16 J	16 J	< 50	< 50	< 50	32 J	44 J	< 50	26 J	20 J	22 J	28 J	39 J	64	1
Carbon Chain C13-C14	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	17 J	20 J	29 J	1.7
Carbon Chain C15-C16	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	23 J	17
Carbon Chain C17-C18	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	17 J	< 50	< 50	< 50	< 50	< 50	< 50	33
Carbon Chain C19-C20	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	39
Carbon Chain C21-C22	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	33
Carbon Chain C23-C24	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	32 J	< 50	37
Carbon Chain C25-C28	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	18 J	< 50	< 50	< 50	< 50	< 50	< 50	26 J	< 50	26
Carbon Chain C29-C32	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	15 J	< 50	13 J	< 50	< 50	< 50	< 50	< 50	< 50	13
Carbon Chain C33-C36	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	13 J	< 50	9.8 J	< 50	< 50	< 50	< 50	< 50	< 50	0.95
Carbon Chain C37-C40	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	8.7 J	< 50	8.3 J	< 50	< 50	< 50	< 50	< 50	< 50	ND
Carbon Chain C41-C44	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	ND
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	--	55	54	< 50	< 50	< 50	250	220	49 J	170	110	140	190	280	290	200

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-05
SAMPLE DATE			11/13/2009	11/13/2009	2/4/2010	5/27/2010	7/7/2010	10/21/2010	2/3/2011	2/3/2011	4/22/2011	8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/16/2012	10/24/2012	8/13/2009
SAMPLE NAME			MW-04	DUP-1	MW-04	MW-04	MW-04	MW-04	MW-04	DUP-1	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-05
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-11-1190	09-11-1190	10-02-0469	10-05-2183	10-07-0427	10-10-1880	11-02-0251	11-02-0251	11-04-1489	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1193	12-10-1714	09-08-1256
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.38 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.96 J**	**0.36 J**	**0.38 J**	**2.6**
1,1-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.56 J**	< 1.0	< 1.0	< 1.0	**0.51 J**	< 1.0	**0.77 J**	**3.2**	**0.79 J**	**0.79 J**	**3.4**
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 50
Benzene	SW8260B	UG/L	< 0.50	< 0.50	**0.29 J**	< 0.50	< 0.50	**0.29 J**	< 0.50	< 0.50	< 0.50	**0.14 J**	**0.17 J**	**0.22 J**	**3.1**	**0.19 J**	**0.21 J**	**1.4**
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	**2.4**	**2.9**	**3.7**	**5.3**	**3.3**	**3.3**	**3.2**	**3.7**	**4.2**	**4.9**	**47**	**7.3**	**6.7**	**97**
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.5**
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	**9.3 J**	**9.4 J**	**15**	**11**	**12**	**18**	**22**	**36**	< 10	< 10	< 10	**5.0 J**	**7.4 J**	**6.6 J**	**5.7 J**	**15**
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0	< 1.0	**84**
Trichloroethene	SW8260B	UG/L	**0.40 J**	**0.37 J**	**7.1**	**7.6**	**10**	**13**	**8.4**	**8.5**	**7.6**	**9.8**	**9**	**13**	**4.6**	**14**	**14**	**260**
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-05
SAMPLE DATE			11/13/2009	11/13/2009	2/4/2010	5/27/2010	7/7/2010	10/21/2010	2/3/2011	2/3/2011	4/22/2011	8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/16/2012	10/24/2012	8/13/2009
SAMPLE NAME			MW-04	DUP-1	MW-04	MW-04	MW-04	MW-04	MW-04	DUP-1	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-05
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-11-1190	09-11-1190	10-02-0469	10-05-2183	10-07-0427	10-10-1880	11-02-0251	11-02-0251	11-04-1489	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1193	12-10-1714	09-08-1256
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	**0.049 BJ**	--	--	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
3/4-Methylphenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
Benzoic Acid	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 50	--	--	--	--	--	--	< 50
Naphthalene	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
Phenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10
TPH as Diesel	SW8015B	UG/L	**89**	**120**	**190**	**290**	**270**	**440**	**360**	**370**	**300**	**190**	**180**	**140**	**130**	**170 HD**	**170 HD**	**250**
TPH as Gasoline	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**52 HD**	< 50	< 50	**190**
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	**440**	**330**	**340**	**210 J**	< 250	< 250	< 250	< 250	< 250	< 250	**290**
Carbon Chain C6	SW8015B	UG/L	--	--	< 50	< 50	< 50	**3.6 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**3.6 J**	< 50	ND
Carbon Chain C7	SW8015B	UG/L	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**14 J**	ND
Carbon Chain C8	SW8015B	UG/L	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	ND
Carbon Chain C9-C10	SW8015B	UG/L	--	--	< 50	< 50	< 50	**15 J**	< 50	< 50	< 50	< 50	< 50	**13 J**	< 50	< 50	< 50	**2.1**
Carbon Chain C11-C12	SW8015B	UG/L	--	--	**24 J**	< 50	< 50	**28 J**	< 50	**18 J**	**16 J**	< 50	< 50	< 50	< 50	< 50	< 50	**1.2**
Carbon Chain C13-C14	SW8015B	UG/L	--	--	< 50	< 50	< 50	**34 J**	**28 J**	**26 J**	**22 J**	< 50	< 50	< 50	< 50	< 50	< 50	**1.4**
Carbon Chain C15-C16	SW8015B	UG/L	--	--	**19 J**	< 50	< 50	**46 J**	**47 J**	**47 J**	**31 J**	< 50	**18 J**	< 50	< 50	< 50	< 50	**6.5**
Carbon Chain C17-C18	SW8015B	UG/L	--	--	**24 J**	< 50	< 50	**64**	**62**	**63**	**52**	**33 J**	**28 J**	**19 J**	< 50	**19 J**	< 50	**18**
Carbon Chain C19-C20	SW8015B	UG/L	--	--	**25 J**	< 50	< 50	**61**	**60**	**56**	**47 J**	**23 J**	**30 J**	< 50	< 50	**18 J**	**21 J**	**55**
Carbon Chain C21-C22	SW8015B	UG/L	--	--	**30 J**	< 50	< 50	**55**	**49 J**	**61**	**44 J**	**30 J**	**24 J**	**24 J**	**20 J**	**27 J**	**31 J**	**54**
Carbon Chain C23-C24	SW8015B	UG/L	--	--	**19 J**	< 50	< 50	**53**	**41 J**	**42 J**	**32 J**	**21 J**	**26 J**	**22 J**	**19 J**	**20 J**	**21 J**	**48**
Carbon Chain C25-C28	SW8015B	UG/L	--	--	**22 J**	< 50	< 50	**58**	**32 J**	**36 J**	**32 J**	**30 J**	**20 J**	**19 J**	**18 J**	**49 J**	**55**	**54**
Carbon Chain C29-C32	SW8015B	UG/L	--	--	< 50	< 50	< 50	**41 J**	**30 J**	**30 J**	**13 J**	**11 J**	**11 J**	**11 J**	**12 J**	< 50	**18 J**	**23**
Carbon Chain C33-C36	SW8015B	UG/L	--	--	< 50	< 50	< 50	**27 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**4.2**
Carbon Chain C37-C40	SW8015B	UG/L	--	--	< 50	< 50	< 50	**15 J**	< 50	< 50	< 50	< 50	**17 J**	< 50	< 50	< 50	< 50	**0.28**
Carbon Chain C41-C44	SW8015B	UG/L	--	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**17 J**	< 50	< 50	< 50	< 50	ND
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	--	--	**160**	**330**	< 50	**500**	**350**	**380**	**290**	**150**	**190**	**110**	**69**	**140**	**160**	**270**

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-06	MW-06
SAMPLE DATE			11/13/2009	2/4/2010	5/27/2010	7/7/2010	7/7/2010	10/21/2010	2/4/2011	4/21/2011	8/19/2011	10/20/2011	1/27/2012	4/19/2012	8/17/2012	10/25/2012	8/13/2009	8/13/2009
SAMPLE NAME			MW-05	MW-05	MW-05	MW-05	DUP-1	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-06	DUP-1
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-11-1190	10-02-0469	10-05-2183	10-07-0427	10-07-0427	10-10-1880	11-02-0356	11-04-1395	11-08-1422	11-10-1463	12-01-1671	12-04-1244	12-08-1322	12-10-1823	09-08-1256	09-08-1256
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	**0.42 J**	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	**2.4**	**1.9 J**	< 1.0	< 2.0	**1.8**	**2.3**	**1.6 J**	**1.4**	**1.2**	**1.5**	**1.7**	**1.8 J**	**2**	**1.7 J**	**6.7**	**6.8**
1,1-Dichloroethene	SW8260B	UG/L	**3.5**	**2.6**	**2**	**3**	**3.2**	**4.4**	**3.6**	**3.7**	**3.4**	**4.4**	**3.7**	**3.9**	**3.4**	**3.4**	**7**	**6.9**
1,2,3-Trichloropropane	SW8260B	UG/L	< 10	< 10	< 5.0	< 10	< 5.0	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	**3.4 J**	**3.6 J**
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	**0.24 J**	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 20	< 20	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 20	< 20	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 10	< 10
Acetone	SW8260B	UG/L	< 100	< 100	< 50	< 100	< 50	< 100	< 100	< 50	< 20	< 20	< 20	< 40	< 40	< 40	< 50	< 50
Benzene	SW8260B	UG/L	**14**	**8.3**	**7.6**	**7.9**	**8.1**	**13**	**29**	**39**	**66**	**100**	**92**	**79**	**61**	**54**	**130**	**130**
Bromochloromethane	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 20	< 20	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 20	< 20	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	**110**	**90**	**130**	**100**	**100**	**88**	**81**	**77**	**58**	**60**	**47**	**47**	**40**	**38**	**63**	**62**
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	**0.54 J**	**0.86 J**	**1**	**0.83 J**	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 4.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 200	< 200	< 100	< 200	< 100	< 200	< 200	< 100	< 100	< 100	< 100	< 200	< 200	< 200	< 100	< 100
Ethylbenzene	SW8260B	UG/L	**0.76 J**	**0.53 J**	< 1.0	< 2.0	< 1.0	**1.0 J**	**2.6**	**3.9**	**4.9**	**4.9**	**1.9**	**0.81 J**	**0.56 J**	**0.57 J**	**0.56 J**	**0.52 J**
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 4.0	< 4.0	< 2.0	< 4.0	< 2.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 20	< 20	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 20	< 20	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	**2.1**	**1.6 J**	**2.5**	< 2.0	**2**	**2.0 J**	**1.5 J**	**1.7**	**1**	**1.1**	< 1.0	**0.64 J**	**0.64 J**	< 2.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 20	< 20	< 10	< 20	< 10	< 20	< 20	< 10	< 10	< 10	< 10	< 20	< 20	< 20	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	**0.68 J**	**0.61 J**	**0.22 J**	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	**0.48 J**	**0.40 J**	**0.34 J**	**0.31 J**	< 2.0	< 2.0	< 2.0	**0.28 J**	**0.30 J**
Styrene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	**8.8 J**	< 20	< 10	< 20	< 10	< 20	< 20	< 10	**8.4 J**	< 10	< 10	< 20	< 20	< 20	**22**	**19**
tert-Butylbenzene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	**110**	**84**	**120**	**100**	**110**	**87**	**73**	**67**	**45**	**42**	**34**	**31**	**26**	**24**	**28**	**28**
Trichloroethene	SW8260B	UG/L	**290**	**300**	**100**	**220**	**240**	**260**	**240**	**200**	**150**	**150**	**200**	**200**	**200**	**270**	< 1.0	< 1.0
Vinyl Chloride	SW8260B	UG/L	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50	**0.33 J**	**0.42 J**	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-06	MW-06
SAMPLE DATE			11/13/2009	2/4/2010	5/27/2010	7/7/2010	7/7/2010	10/21/2010	2/4/2011	4/21/2011	8/19/2011	10/20/2011	1/27/2012	4/19/2012	8/17/2012	10/25/2012	8/13/2009	8/13/2009
SAMPLE NAME			MW-05	MW-05	MW-05	MW-05	DUP-1	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-06	DUP-1
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-11-1190	10-02-0469	10-05-2183	10-07-0427	10-07-0427	10-10-1880	11-02-0356	11-04-1395	11-08-1422	11-10-1463	12-01-1671	12-04-1244	12-08-1322	12-10-1823	09-08-1256	09-08-1256
Xylenes, Total	SW8260B	UG/L	< 2.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0	< 1.0	0.34 J	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	0.72 J
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	0.041 BJ	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	--	3.9 J	--	--	--	--	--	--	< 10	< 10
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	--	8.7 J	--	--	--	--	--	--	< 10	< 10
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10	< 10
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10	< 10
3/4-Methylphenol	SW8270C	UG/L	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10	< 10
Benzoic Acid	SW8270C	UG/L	--	--	--	--	--	--	--	< 50	--	--	--	--	--	--	< 50	< 50
Naphthalene	SW8270C	UG/L	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10	< 10
Phenol	SW8270C	UG/L	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10	< 10
TPH as Diesel	SW8015B	UG/L	340	270	440	410	430	370	250	390	210 HD	310 HD	330 HD	350 HD	330 HD	340 HD	430	420
TPH as Gasoline	SW8015B	UG/L	270	220	270	290	270	300	310	330	340 HD	380 HD	490 HD	380 HD	240 HD	210 HD	710	660
TPH as Motor Oil	SW8015B	UG/L	400	230 J	490	340	350	460	310	420	250 J	350	400 HD	400 HD	480 HD	440 HD	360	350
Carbon Chain C6	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	19 J	< 50	< 50	32 J	40 J	33 J	16 J	27 J	36 J	ND	ND
Carbon Chain C7	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	28 J	< 50	< 50	21 J	22 J	21 J	19 J	21 J	30 J	ND	ND
Carbon Chain C8	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	14 J	17 J	10 J	12 J	< 50	ND	ND
Carbon Chain C9-C10	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	17 J	20 J	< 50	21 J	20 J	0.9	ND
Carbon Chain C11-C12	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	0.38	1
Carbon Chain C13-C14	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	18	17
Carbon Chain C15-C16	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	19 J	< 50	18 J	< 50	< 50	< 50	< 50	< 50	21 J	65	64
Carbon Chain C17-C18	SW8015B	UG/L	--	36 J	54	< 50	62	42 J	27 J	48 J	21 J	33 J	33 J	44 J	43 J	37 J	91	87
Carbon Chain C19-C20	SW8015B	UG/L	--	55	78	97	87	49 J	56	59	42 J	51	60	60	62	61	90	89
Carbon Chain C21-C22	SW8015B	UG/L	--	55	59	87	85	65	52	63	41 J	62	61	75	59	62	65	59
Carbon Chain C23-C24	SW8015B	UG/L	--	48 J	77	61	65	68	47 J	67	42 J	47 J	44 J	41 J	52	70	42	52
Carbon Chain C25-C28	SW8015B	UG/L	--	44 J	88	62	64	73	43 J	65	36 J	62	69	82	110	89	31	22
Carbon Chain C29-C32	SW8015B	UG/L	--	19 J	73	< 50	< 50	52	38 J	54	29 J	37 J	45 J	44 J	31 J	34 J	12	12
Carbon Chain C33-C36	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	30 J	15 J	31 J	15 J	21 J	17 J	25 J	38 J	14 J	0.019	0.48
Carbon Chain C37-C40	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	26 J	9.0 J	14 J	13 J	17 J	16 J	18 J	20 J	10 J	ND	ND
Carbon Chain C41-C44	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	6.7 J	< 50	< 50	12 J	< 50	ND	ND
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	--	260	580	310	360	470	290	420	290	430	440	430	510	480	410	400

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-07	MW-07	MW-07
SAMPLE DATE			11/13/2009	2/4/2010	5/28/2010	7/7/2010	10/21/2010	2/4/2011	4/22/2011	8/19/2011	10/20/2011	1/27/2012	4/18/2012	8/16/2012	10/25/2012	7/6/2010	10/21/2010	2/4/2011
SAMPLE NAME			MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-07	MW-07	MW-07
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-11-1190	10-02-0469	10-05-2273	10-07-0427	10-10-1880	11-02-0356	11-04-1489	11-08-1422	11-10-1463	12-01-1671	12-04-1162	12-08-1193	12-10-1823	10-07-0283	10-10-1880	11-02-0356
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1**	< 2.0	**1**
1,1-Dichloroethane	SW8260B	UG/L	**7**	**5.4**	**6.7**	**6.8**	**8.1**	**7.3**	**7.2**	**3.6**	**6.2**	**7.4**	**6.7**	**8.3**	**6.5**	**28**	**33**	**26**
1,1-Dichloroethene	SW8260B	UG/L	**7.2**	**5.6**	**6.5**	**6.8**	**9.4**	**8.3**	**8.9**	**4.6**	**8.3**	**8.2**	**8.7**	**10**	**7.4**	**86**	**100**	**79**
1,2,3-Trichloropropane	SW8260B	UG/L	**4.2 J**	**6.2**	**10**	**9.9**	**22**	**22**	**27**	**10**	**15**	**16**	**15**	**20**	**16**	< 5.0	< 10	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	**0.61**
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Acetone	SW8260B	UG/L	**28 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 50	< 100	< 50
Benzene	SW8260B	UG/L	**140**	**120**	**130**	**130**	**160**	**160**	**150**	**81**	**130**	**160**	**140**	**180**	**170**	**1.2**	**1.4**	**1**
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	**0.60 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	**70**	**65**	**74**	**74**	**89**	**89**	**90**	**47**	**78**	**93**	**87**	**120**	**95**	**210**	**230**	**200**
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200	< 100
Ethylbenzene	SW8260B	UG/L	< 1.0	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	< 1.0	**0.24 J**	< 1.0	< 1.0	**0.48 J**	**0.27 J**	**0.39 J**	< 1.0	**0.29 J**	< 1.0	**0.25 J**	**0.31 J**	**0.27 J**	< 1.0	< 2.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	**19**	**16**	**15**	**18**	**20**	**18**	< 10	**15**	**16**	**29**	**20**	**22**	**28**	< 10	**17 J**	< 10
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	**29**	**21**	**24**	**25**	**28**	**25**	**26**	**12**	**19**	**23**	**20**	**28**	**22**	**1.8**	**2**	**1.5**
Trichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**12**	**9.4**	**16**
Vinyl Chloride	SW8260B	UG/L	**0.40 J**	**0.36 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.57**	< 0.50	**0.62**	**0.71**	**0.42 J**	**0.91**	< 1.0	**0.77**

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-07	MW-07	MW-07
SAMPLE DATE			11/13/2009	2/4/2010	5/28/2010	7/7/2010	10/21/2010	2/4/2011	4/22/2011	8/19/2011	10/20/2011	1/27/2012	4/18/2012	8/16/2012	10/25/2012	7/6/2010	10/21/2010	2/4/2011
SAMPLE NAME			MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-07	MW-07	MW-07
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	09-11-1190	10-02-0469	10-05-2273	10-07-0427	10-10-1880	11-02-0356	11-04-1489	11-08-1422	11-10-1463	12-01-1671	12-04-1162	12-08-1193	12-10-1823	10-07-0283	10-10-1880	11-02-0356
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.30 J	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--
3/4-Methylphenol	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--
Benzoic Acid	SW8270C	UG/L	--	--	--	--	--	--	< 50	--	--	--	--	--	--	--	--	--
Naphthalene	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--
Phenol	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--
TPH as Diesel	SW8015B	UG/L	400	330	470	340	490	320	280	260 HD	340	340	330	400	490	210	310	290
TPH as Gasoline	SW8015B	UG/L	490	400	600	520	750	620	540	390 HD	660 HD	760 HD	600 HD	500 HD	500 HD	190	180	73
TPH as Motor Oil	SW8015B	UG/L	240 J	< 250	290	< 250	370	< 250	< 250	240 J	240 J	< 250	< 250	280 HD	350 HD	< 250	260	< 250
Carbon Chain C6	SW8015B	UG/L	--	< 50	70	< 50	82	< 50	< 50	31 J	52	60	55	64	99	< 50	19 J	1.8 J
Carbon Chain C7	SW8015B	UG/L	--	< 50	< 50	< 50	16 J	< 50	20 J	9.0 J	28 J	34 J	< 50	13 J	16 J	< 50	13 J	6.5 J
Carbon Chain C8	SW8015B	UG/L	--	14 J	< 50	< 50	14 J	11 J	16 J	12 J	23 J	29 J	24 J	13 J	16 J	< 50	< 50	< 50
Carbon Chain C9-C10	SW8015B	UG/L	--	27 J	< 50	< 50	40 J	23 J	26 J	24 J	37 J	44 J	25 J	27 J	43 J	< 50	16 J	< 50
Carbon Chain C11-C12	SW8015B	UG/L	--	45 J	66	< 50	58	42 J	36 J	29 J	36 J	43 J	44 J	40 J	59	< 50	32 J	34 J
Carbon Chain C13-C14	SW8015B	UG/L	--	40 J	56	< 50	58	43 J	33 J	32 J	34 J	44 J	39 J	46 J	66	< 50	42 J	52
Carbon Chain C15-C16	SW8015B	UG/L	--	50	62	63	63	51	48 J	31 J	44 J	46 J	50 J	51	75	< 50	46 J	57
Carbon Chain C17-C18	SW8015B	UG/L	--	46 J	73	< 50	64	58	46 J	39 J	50 J	50 J	52	60	75	< 50	42 J	51
Carbon Chain C19-C20	SW8015B	UG/L	--	43 J	55	< 50	60	47 J	33 J	32 J	40 J	39 J	45 J	48 J	58	< 50	38 J	34 J
Carbon Chain C21-C22	SW8015B	UG/L	--	30 J	< 50	< 50	43 J	40 J	26 J	40 J	45 J	37 J	42 J	42 J	52	< 50	23 J	28 J
Carbon Chain C23-C24	SW8015B	UG/L	--	23 J	< 50	< 50	38 J	19 J	18 J	24 J	25 J	29 J	18 J	28 J	34 J	< 50	25 J	< 50
Carbon Chain C25-C28	SW8015B	UG/L	--	17 J	< 50	< 50	46 J	< 50	< 50	36 J	25 J	< 50	< 50	46 J	58	82	27 J	< 50
Carbon Chain C29-C32	SW8015B	UG/L	--	< 50	< 50	< 50	33 J	10 J	< 50	27 J	14 J	< 50	< 50	11 J	10 J	< 50	26 J	< 50
Carbon Chain C33-C36	SW8015B	UG/L	--	< 50	< 50	< 50	23 J	< 50	< 50	16 J	8.2 J	< 50	< 50	< 50	< 50	< 50	20 J	< 50
Carbon Chain C37-C40	SW8015B	UG/L	--	< 50	< 50	< 50	12 J	< 50	< 50	13 J	15 J	< 50	< 50	13 J	< 50	< 50	17 J	< 50
Carbon Chain C41-C44	SW8015B	UG/L	--	< 50	< 50	< 50	< 50	< 50	< 50	< 50	8.9 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	--	340	620	63	650	340	300	390	480	450	390	500	660	82	380	260

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08
SAMPLE DATE			4/21/2011	8/19/2011	10/20/2011	1/27/2012	4/18/2012	8/17/2012	10/25/2012	7/7/2010	10/21/2010	2/4/2011	4/22/2011	8/22/2011	10/21/2011	1/27/2012	4/19/2012	8/17/2012
SAMPLE NAME			MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	11-04-1395	11-08-1422	11-10-1463	12-01-1671	12-04-1162	12-08-1322	12-10-1823	10-07-0427	10-10-1880	11-02-0356	11-04-1489	11-08-1498	11-10-1572	12-01-1671	12-04-1244	12-08-1322
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	0.61 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	18	14	8	8.6	15	16	11	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.96 J	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	61	46	28	23	44	43	30	< 1.0	0.51 J	0.56 J	0.51 J	0.60 J	0.58 J	< 1.0	3.1	0.52 J
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.82 J	4.0 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.2	3.7	3.1	2.3	1.4	0.87 J	< 1.0	< 1.0	0.56 J
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	0.46 J	0.44 J	0.27 J	< 0.50	0.57	0.63	0.47 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 50	12 J	< 20	< 20	< 20	< 20	< 20	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20
Benzene	SW8260B	UG/L	0.82	0.76	0.71	0.76	0.69	0.49 J	0.49 J	130	140	120	94	85	86	74	64	56
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	150	110	67	44	91	100	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.50 J	< 1.0	16	1.0 J
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	3.4	2.6	2.4	1.6	1.3	0.82 J	< 1.0	0.91 J
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	12	19	15	12	8.9	6.9	2.9	0.19 J	4.7
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	0.88 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11	7.3 J	3.4 J	3.7 J	< 10	< 10	< 10	2.7 J
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.66 J	0.45 J	0.31 J	0.43 J	0.49 J	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.65 J	0.56 J	0.43 J	0.38 J	0.34 J	< 1.0	< 1.0	0.21 J
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	2.6	1.7	1.6	1.1	0.87 J	0.40 J	< 1.0	0.58 J
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.99 J	0.89 J	0.80 J	0.63 J	0.46 J	0.30 J	0.43 J
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	4.2 J	7.8 J	< 10	< 10	< 10	< 10	< 10	10	16	14	< 10	16	14	26	18	14
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	0.30 J	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	0.73 J	1.1	3.3	0.66 J	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.88 J	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	1.1	0.70 J	0.62 J	0.56 J	0.59 J	0.62 J	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	SW8260B	UG/L	21	26	39	46	27	27	51	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2 b	< 1.0	< 1.0	0.39 J
Vinyl Chloride	SW8260B	UG/L	0.59	0.67	0.44 J	< 0.50	0.47 J	0.49 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08
SAMPLE DATE			4/21/2011	8/19/2011	10/20/2011	1/27/2012	4/18/2012	8/17/2012	10/25/2012	7/7/2010	10/21/2010	2/4/2011	4/22/2011	8/22/2011	10/21/2011	1/27/2012	4/19/2012	8/17/2012
SAMPLE NAME			MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-07	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08	MW-08
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	11-04-1395	11-08-1422	11-10-1463	12-01-1671	12-04-1162	12-08-1322	12-10-1823	10-07-0427	10-10-1880	11-02-0356	11-04-1489	11-08-1498	11-10-1572	12-01-1671	12-04-1244	12-08-1322
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	28	30	23	16	9.4	4.5	1	< 1.0	3.2
1-Methylnaphthalene	8270SIM	UG/L	< 0.20	--	--	--	--	--	--	--	--	--	0.63	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	< 0.20	--	--	--	--	--	--	--	--	--	0.24	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	< 0.20	--	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	< 0.20	--	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--
Fluorene	8270SIM	UG/L	< 0.20	--	--	--	--	--	--	--	--	--	0.18 J	--	--	--	--	--
Naphthalene	8270SIM	UG/L	< 0.20	--	--	--	--	--	--	--	--	--	1.9 B	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	1.8 J	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	4.3 J	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--
1-Methylnaphthalene	SW8270C	UG/L	< 10	--	--	--	--	--	--	--	--	--	1.4 J	--	--	--	--	--
2,4-Dimethylphenol	SW8270C	UG/L	< 10	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--
3/4-Methylphenol	SW8270C	UG/L	< 10	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--
Benzoic Acid	SW8270C	UG/L	< 50	--	--	--	--	--	--	--	--	--	< 50	--	--	--	--	--
Naphthalene	SW8270C	UG/L	< 10	--	--	--	--	--	--	--	--	--	3.3 J	--	--	--	--	--
Phenol	SW8270C	UG/L	< 10	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--
TPH as Diesel	SW8015B	UG/L	490	410 HD	650	700	580	390	590	1400	2100	1300	1200	1500	1200	1200	890	1200
TPH as Gasoline	SW8015B	UG/L	94	86 HD	95 HD	78 HD	74 HD	78 HD	48 HDJ	500	500	490	500	440 HD	350 HD	380 HD	270 HD	250 HD
TPH as Motor Oil	SW8015B	UG/L	330	220 J	400	440 HD	400 HD	270 HD	500 HD	380	890	460	330	640	480	510 HD	510 HD	500 HD
Carbon Chain C6	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	3.2 J	15 J	< 50	57	52	< 50	30 J	31 J b	21 J	< 50	20 J
Carbon Chain C7	SW8015B	UG/L	< 50	6.6 J	< 50	< 50	< 50	< 50	8.3 J	< 50	22 J	9.6 J	23 J	10 J	8.2 J	6.9 J	11 J	< 50
Carbon Chain C8	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	61	44 J	41 J	35 J	26 J	23 J	20 J	24 J
Carbon Chain C9-C10	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	220	190	140	120	120	92	92	61	100
Carbon Chain C11-C12	SW8015B	UG/L	40 J	28 J	44 J	52	43 J	23 J	33 J	240	340	270	210	230	190	240	190	200
Carbon Chain C13-C14	SW8015B	UG/L	69	66	100	100	79	58	81	290	420	250	230	310	230	220	180	230
Carbon Chain C15-C16	SW8015B	UG/L	93	110	140	150	110	78	110	260	370	260	250	260	240	270	220	230
Carbon Chain C17-C18	SW8015B	UG/L	84	69	130	160	120	75	100	190	270	180	150	210	150	160	170	170
Carbon Chain C19-C20	SW8015B	UG/L	68	64	110	110	88	73	110	110	160	130	94	130	97	120	130	98
Carbon Chain C21-C22	SW8015B	UG/L	39 J	26 J	48 J	49 J	52	24 J	73	58	100	54	54	89	82	63	50	73
Carbon Chain C23-C24	SW8015B	UG/L	23 J	< 50	26 J	21 J	29 J	19 J	38 J	< 50	63	45 J	24 J	57	28 J	40 J	35 J	24 J
Carbon Chain C25-C28	SW8015B	UG/L	21 J	< 50	19 J	< 50	22 J	31 J	33 J	< 50	53	< 50	< 50	40 J	36 J	< 50	21 J	50
Carbon Chain C29-C32	SW8015B	UG/L	18 J	< 50	< 50	< 50	16 J	< 50	26 J	< 50	39 J	9.2 J	< 50	22 J	30 J	9.2 J	12 J	11 J
Carbon Chain C33-C36	SW8015B	UG/L	12 J	< 50	< 50	< 50	< 50	13 J	14 J	< 50	20 J	< 50	< 50	9.4 J	22 J	< 50	< 50	13 J
Carbon Chain C37-C40	SW8015B	UG/L	12 J	< 50	10 J	< 50	11 J	< 50	9.9 J	< 50	12 J	< 50	< 50	10 J	23 J	< 50	< 50	13 J
Carbon Chain C41-C44	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	12 J	< 50	< 50	7.2 J
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	480	370	620	650	570	400	650	1400	2200	1400	1200	1600	1300	1300	1100	1300

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-08	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-10	MW-10	MW-10	MW-10	MW-10
SAMPLE DATE			10/26/2012	7/7/2010	10/20/2010	2/3/2011	4/20/2011	8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/15/2012	10/24/2012	7/7/2010	10/21/2010	10/21/2010	2/4/2011	4/20/2011
SAMPLE NAME			MW-08	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-10	MW-10	DUP-1	MW-10	MW-10
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-10-1904	10-07-0427	10-10-1693	11-02-0251	11-04-1297	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1089	12-10-1714	10-07-0427	10-10-1880	10-10-1880	11-02-0356	11-04-1297
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1**	**1.7**	**1.8**	< 1.0	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	**0.50 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.6**	**3.5**	**4**	**0.95 J**	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	**0.48 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 20	< 50	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 50	< 50	< 50	< 50	< 50
Benzene	SW8260B	UG/L	**57**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**2.3**	**2.4**	**0.81**	< 0.50
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	**0.55 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**37**	**53**	**53**	**13**	**2.9**
Cumene (Isopropylbenzene)	SW8260B	UG/L	**0.99 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	**4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	**3.2 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	**0.65 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	**0.53 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	**15**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**22**	**16**	**13**	< 10	< 10
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.2**	**1.7**	**1.8**	**0.47 J**	< 1.0
Trichloroethene	SW8260B	UG/L	**0.43 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.92 J**	**0.80 J**	< 1.0	< 1.0
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-08	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-10	MW-10	MW-10	MW-10	MW-10
SAMPLE DATE			10/26/2012	7/7/2010	10/20/2010	2/3/2011	4/20/2011	8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/15/2012	10/24/2012	7/7/2010	10/21/2010	10/21/2010	2/4/2011	4/20/2011
SAMPLE NAME			MW-08	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-09	MW-10	MW-10	DUP-1	MW-10	MW-10
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-10-1904	10-07-0427	10-10-1693	11-02-0251	11-04-1297	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1089	12-10-1714	10-07-0427	10-10-1880	10-10-1880	11-02-0356	11-04-1297
Xylenes, Total	SW8260B	UG/L	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--	--	< 0.20
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	0.037 J	--	--	--	--	--	--	--	--	--	--	< 0.20
Acenaphthene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--	--	< 0.20
Acenaphthylene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--	--	< 0.20
Fluorene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	--	--	--	--	--	< 0.20
Naphthalene	8270SIM	UG/L	--	--	--	--	0.076 BJ	--	--	--	--	--	--	--	--	--	--	0.046 BJ
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--	--	< 10
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--	--	< 10
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--	--	< 10
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--	--	< 10
3/4-Methylphenol	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--	--	< 10
Benzoic Acid	SW8270C	UG/L	--	--	--	--	< 50	--	--	--	--	--	--	--	--	--	--	< 50
Naphthalene	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--	--	< 10
Phenol	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	--	--	--	--	--	< 10
TPH as Diesel	SW8015B	UG/L	1600	< 50	130	< 50	< 50	< 50	< 50	< 50	59	< 50	72 HD	110	230	210	< 50	< 50
TPH as Gasoline	SW8015B	UG/L	290 HD	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	49 J	51	< 50	< 50
TPH as Motor Oil	SW8015B	UG/L	770 HD	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	220 J	< 250	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	6.0 J	< 50	< 50	6.6 J	4.1 J	< 50	< 50
Carbon Chain C7	SW8015B	UG/L	8.3 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C8	SW8015B	UG/L	26 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C9-C10	SW8015B	UG/L	120	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	14 J	< 50	< 50
Carbon Chain C11-C12	SW8015B	UG/L	310	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	24 J	25 J	< 50	< 50
Carbon Chain C13-C14	SW8015B	UG/L	250	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	25 J	26 J	< 50	< 50
Carbon Chain C15-C16	SW8015B	UG/L	370	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	26 J	25 J	< 50	< 50
Carbon Chain C17-C18	SW8015B	UG/L	200	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	26 J	25 J	< 50	< 50
Carbon Chain C19-C20	SW8015B	UG/L	150	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	25 J	22 J	< 50	< 50
Carbon Chain C21-C22	SW8015B	UG/L	110	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	23 J	< 50	< 50	< 50
Carbon Chain C23-C24	SW8015B	UG/L	62	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	24 J	20 J	< 50	< 50
Carbon Chain C25-C28	SW8015B	UG/L	54	< 50	20 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	17 J	< 50	27 J	23 J	< 50	< 50
Carbon Chain C29-C32	SW8015B	UG/L	29 J	< 50	13 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	27 J	22 J	< 50	< 50
Carbon Chain C33-C36	SW8015B	UG/L	17 J	< 50	8.5 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	22 J	17 J	< 50	< 50
Carbon Chain C37-C40	SW8015B	UG/L	7.7 J	< 50	14 J	< 50	< 50	< 50	13 J	< 50	< 50	< 50	< 50	< 50	10 J	12 J	< 50	< 50
Carbon Chain C41-C44	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	1700	< 50	56	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	270	240	< 50	< 50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
SAMPLE DATE			8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/15/2012	10/24/2012	7/6/2010	10/20/2010	2/3/2011	4/20/2011	8/16/2011	10/18/2011	1/24/2012	4/17/2012	8/13/2012	10/22/2012
SAMPLE NAME			MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1089	12-10-1714	10-07-0283	10-10-1693	11-02-0251	11-04-1297	11-08-1159	11-10-1284	12-01-1408	12-04-1076	12-08-0976	12-10-1554
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	**2.3**	< 1.0	< 1.0	**2.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	**6**	< 1.0	**0.63 J**	**5.9**	**0.64 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 20	< 20	< 20	< 20	< 20	< 20	< 50	< 50	< 50	< 50	**8.8 J**	< 20	< 20	< 20	< 20	< 20
Benzene	SW8260B	UG/L	**11**	**0.40 J**	**0.71**	**6.5**	**0.49 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	**77**	**3.4**	**8**	**65**	**7.8**	**2.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.19 J**
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	**15**	< 10	< 10	**16**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	**2.4**	< 1.0	< 1.0	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	SW8260B	UG/L	**0.80 J**	< 1.0	< 1.0	**0.71 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
SAMPLE DATE			8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/15/2012	10/24/2012	7/6/2010	10/20/2010	2/3/2011	4/20/2011	8/16/2011	10/18/2011	1/24/2012	4/17/2012	8/13/2012	10/22/2012
SAMPLE NAME			MW-10	MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1089	12-10-1714	10-07-0283	10-10-1693	11-02-0251	11-04-1297	11-08-1159	11-10-1284	12-01-1408	12-04-1076	12-08-0976	12-10-1554
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	--	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	--	--	--	--	--	--	--	**0.052 BJ**	--	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--
3/4-Methylphenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--
Benzoic Acid	SW8270C	UG/L	--	--	--	--	--	--	--	--	--	< 50	--	--	--	--	--	--
Naphthalene	SW8270C	UG/L	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--
Phenol	SW8270C	UG/L	--	--	--	--	--	--	--	--	--	< 10	--	--	--	--	--	--
TPH as Diesel	SW8015B	UG/L	**130**	< 50	< 50	**230**	< 50	< 50	< 50	**43 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
TPH as Gasoline	SW8015B	UG/L	**95 HD**	< 50	< 50	**65 HD**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	**4.9 J**	< 50	< 50	**2.5 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C7	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C8	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C9-C10	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C11-C12	SW8015B	UG/L	**21 J**	< 50	< 50	**28 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C13-C14	SW8015B	UG/L	**20 J**	< 50	< 50	**23 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C15-C16	SW8015B	UG/L	**25 J**	< 50	< 50	**37 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C17-C18	SW8015B	UG/L	**18 J**	< 50	< 50	**32 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C19-C20	SW8015B	UG/L	< 50	< 50	< 50	**28 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C21-C22	SW8015B	UG/L	< 50	< 50	< 50	**30 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C23-C24	SW8015B	UG/L	< 50	< 50	< 50	**19 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C25-C28	SW8015B	UG/L	< 50	< 50	< 50	**17 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C29-C32	SW8015B	UG/L	< 50	< 50	< 50	**16 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C33-C36	SW8015B	UG/L	< 50	< 50	< 50	**9.8 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C37-C40	SW8015B	UG/L	< 50	**25 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C41-C44	SW8015B	UG/L	< 50	**16 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	**89**	< 50	< 50	**240**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13
SAMPLE DATE			3/4/2011	3/4/2011	4/21/2011	8/19/2011	10/20/2011	1/26/2012	4/18/2012	8/16/2012	10/25/2012	3/4/2011	4/22/2011	8/22/2011	8/22/2011	10/21/2011	10/21/2011	1/27/2012
SAMPLE NAME			MW-12-DUP	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13-DUP	MW-13	MW-13-DUP	MW-13	MW-13-DUP
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	11-03-0384	11-03-0384	11-04-1395	11-08-1422	11-10-1463	12-01-1597	12-04-1162	12-08-1193	12-10-1823	11-03-0384	11-04-1489	11-08-1498	11-08-1498	11-10-1572	11-10-1572	12-01-1671
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	SW8260B	UG/L	1	1.1	0.88 J	0.94 J	1.1	1	1.7	1.1	0.88 J	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	SW8260B	UG/L	1.3	1.3	0.99 J	1.1	1.5	1.6	4.1	1.6	0.65 J	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzene	SW8260B	UG/L	1.8	1.7	1.1	2.9	< 1.0	2	0.40 J	1.3	1.4	74	97	53	52	60	59	37
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
1,3,5-Trimethylbenzene	SW8260B	UG/L	0.58 J	0.56 J	0.60 J	1.9	< 1.0	1.3	< 1.0	0.87 J	0.92 J	18	25	9.6	9.4	13	12	7.6
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	8.4 J	< 10	< 50	< 50	< 50	< 50	< 50
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 50
Acetone	SW8260B	UG/L	< 50	< 50	< 50	< 20	< 20	< 20	< 20	< 20	< 20	< 50	< 50	< 100	< 100	< 100	< 100	< 100
Benzene	SW8260B	UG/L	120	120	110	82	53	45	23	28	37	600	600	520	520	620	590	650
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 50
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 50
cis-1,2-Dichloroethene	SW8260B	UG/L	20	20	19	20	21	22	30	26	24	18	16	20	19	24	22	22
Cumene (Isopropylbenzene)	SW8260B	UG/L	0.38 J	0.38 J	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16	25	11	11	20	19	18
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 10	< 10	< 10	< 10
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 500	< 500	< 500
Ethylbenzene	SW8260B	UG/L	2.6	2.5	2.5	5	0.53 J	3.9	0.54 J	3.4	3.8	120	140	100	100	150	140	140
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 10	< 10	< 10	< 10
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 50
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	0.84 J	< 10	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 50
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	58	56	61	65	82	78	78
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1	2.9	2.0 J	2.1 J	2.4 J	3.4 J	2.2 J
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.9	4.4	2.2 J	2.2 J	3.0 J	2.7 J	1.9 J
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	0.18 J	< 1.0	< 1.0	< 1.0	0.20 J	0.24 J	15	25	9.1	9.5	19	17	17
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	3.4	1.8 J	1.8 J	2.5 J	2.2 J	2.3 J
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	22	15	12	15	15	32	18	26	44	< 10	< 10	< 50	< 50	< 50	< 50	46 J
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	SW8260B	UG/L	6.4	6.5	0.78 J	12	0.31 J	3.5	0.25 J	2.3	3.7	1.8	0.48 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	0.67 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13
SAMPLE DATE			3/4/2011	3/4/2011	4/21/2011	8/19/2011	10/20/2011	1/26/2012	4/18/2012	8/16/2012	10/25/2012	3/4/2011	4/22/2011	8/22/2011	8/22/2011	10/21/2011	10/21/2011	1/27/2012
SAMPLE NAME			MW-12-DUP	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13	MW-13	MW-13-DUP	MW-13	MW-13-DUP	MW-13	MW-13-DUP
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	11-03-0384	11-03-0384	11-04-1395	11-08-1422	11-10-1463	12-01-1597	12-04-1162	12-08-1193	12-10-1823	11-03-0384	11-04-1489	11-08-1498	11-08-1498	11-10-1572	11-10-1572	12-01-1671
Xylenes, Total	SW8260B	UG/L	11	11	2	27	0.96 J	16	0.98 J	13	15	280	280	140	140	150	150	64
1-Methylnaphthalene	8270SIM	UG/L	--	--	0.14 J	--	--	--	--	--	--	--	0.94 J	0.22	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	0.096 J	--	--	--	--	--	--	--	0.48 J	0.078 J	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	< 0.20	--	--	--	--	--	--	--	< 1.0	< 0.20	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	< 0.20	--	--	--	--	--	--	--	< 1.0	0.085 J	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	< 0.20	--	--	--	--	--	--	--	< 1.0	< 0.20	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	0.93 B	--	--	--	--	--	--	--	11 B	1.5	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	4.6 J	--	--	--	--	--	--	--	< 10	< 10	--	--	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	11	--	--	--	--	--	--	--	< 10	< 10	--	--	--	--
1-Methylnaphthalene	SW8270C	UG/L	--	--	< 10	--	--	--	--	--	--	--	< 10	< 10	--	--	--	--
2,4-Dimethylphenol	SW8270C	UG/L	--	--	< 10	--	--	--	--	--	--	--	11	7.2 J	--	--	--	--
3/4-Methylphenol	SW8270C	UG/L	--	--	< 10	--	--	--	--	--	--	--	< 10	< 10	--	--	--	--
Benzoic Acid	SW8270C	UG/L	--	--	< 50	--	--	--	--	--	--	--	< 50	< 50	--	--	--	--
Naphthalene	SW8270C	UG/L	--	--	< 10	--	--	--	--	--	--	--	11	9.2 J	--	--	--	--
Phenol	SW8270C	UG/L	--	--	< 10	--	--	--	--	--	--	--	13	12	--	--	--	--
TPH as Diesel	SW8015B	UG/L	78	53	200	260 HD	380	410	760	760 HD	610	1300	2300	1900 HD	2100 HD	2400 HD	2400 HD	2600 HD
TPH as Gasoline	SW8015B	UG/L	310	290	350	460 HD	270 HD	420	240 HD	260	280	2100	3000	2000 HD	2100 HD	2100	2100	2700 HD j
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	220 J	510 HD	780 HD	390 HD	300	500	720	770	890	890	1400 HD
Carbon Chain C6	SW8015B	UG/L	60	86	< 50	34 J	24 J	21 J	15 J	20 J	30 J	280	< 50	170	180	190 b	170 b	170
Carbon Chain C7	SW8015B	UG/L	16 J	17 J	< 50	18 J	14 J	33 J	14 J	16 J	16 J	39 J	100	45 J	29 J	56	35 J	44 J
Carbon Chain C8	SW8015B	UG/L	17 J	16 J	< 50	28 J	13 J	28 J	13 J	25 J	24 J	360	390	150	180	240	240	230
Carbon Chain C9-C10	SW8015B	UG/L	21 J	21 J	< 50	34 J	33 J	31 J	27 J	19 J	29 J	540	620	370	410	480	490	460
Carbon Chain C11-C12	SW8015B	UG/L	20 J	15 J	< 50	26 J	36 J	31 J	54	44 J	41 J	350	510	300	320	410	430	480
Carbon Chain C13-C14	SW8015B	UG/L	< 50	< 50	20 J	44 J	58	58	99	80	83	210	380	340	330	340	340	370
Carbon Chain C15-C16	SW8015B	UG/L	< 50	< 50	34 J	47 J	81	100	190	210	150	130	380	280	360	370	420	380
Carbon Chain C17-C18	SW8015B	UG/L	< 50	< 50	45 J	44 J	66	98	180	190	140	81	220	230	260	290	310	360
Carbon Chain C19-C20	SW8015B	UG/L	< 50	< 50	30 J	29 J	52	57	110	110	130	62	180	140	150	170	180	250
Carbon Chain C21-C22	SW8015B	UG/L	< 50	< 50	< 50	< 50	20 J	19 J	42 J	26 J	< 50	26 J	82	130	140	130	160	140
Carbon Chain C23-C24	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	18 J	< 50	< 50	< 50	25 J	42 J	37 J	63	48 J	98
Carbon Chain C25-C28	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	17 J	24 J	< 50	< 50	< 50	44 J	38 J	38 J	47 J	84
Carbon Chain C29-C32	SW8015B	UG/L	< 50	< 50	14 J	8.7 J	< 50	< 50	14 J	< 50	< 50	16 J	< 50	36 J	33 J	43 J	53	110
Carbon Chain C33-C36	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	19 J	16 J	20 J	35 J	62
Carbon Chain C37-C40	SW8015B	UG/L	< 50	< 50	< 50	13 J	< 50	< 50	15 J	7.7 J	< 50	< 50	< 50	17 J	14 J	33 J	39 J	49 J
Carbon Chain C41-C44	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	16 J	15 J	22 J
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	130	150	140	330	400	480	810	780	650	2100	2900	2300	2500	2900	3000	3300

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15
SAMPLE DATE			1/27/2012	4/19/2012	4/19/2012	8/17/2012	8/17/2012	10/26/2012	4/21/2011	8/22/2011	10/21/2011	1/27/2012	4/19/2012	8/17/2012	10/26/2012	4/22/2011	8/18/2011	10/19/2011
SAMPLE NAME			MW-13	MW-13-Dup	MW-13	MW-13 DUP	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-01-1671	12-04-1244	12-04-1244	12-08-1322	12-08-1322	12-10-1904	11-04-1395	11-08-1498	11-10-1572	12-01-1671	12-04-1244	12-08-1322	12-10-1904	11-04-1489	11-08-1356	11-10-1376
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	0.34 J	< 1.0	< 2.0	2.3	2	2.4
1,1-Dichloroethene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	0.82 J	< 2.0	< 2.0	2.6	3.4	1.2	< 2.0	5	4.9	4.7
1,2,3-Trichloropropane	SW8260B	UG/L	< 25	< 25	< 25	< 25	< 25	< 5.0	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	33	25	24	20	20	27	1.7 J	1.4 J	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	0.32 J	< 1.0	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	7.4	3.4 J	3.2 J	3.6 J	3.5 J	4.1	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 50	< 50	< 50	< 50	< 50	< 10	< 20	< 20	< 20	< 10	< 10	< 10	< 20	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	0.27 J	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 50	< 50	< 50	< 50	< 50	< 10	< 20	< 20	< 20	< 10	< 10	< 10	< 20	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 20	< 100	< 40	< 40	< 20	< 20	< 20	25 J	< 50	< 20	< 20
Benzene	SW8260B	UG/L	610	600	590	550	550	600	350	330	360	200	49	370	640	17	28	20
Bromochloromethane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 50	< 50	< 50	< 50	< 50	< 10	< 20	< 20	< 20	0.84 J	< 10	< 10	< 20	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 50	< 50	< 50	< 50	< 50	< 10	< 20	< 20	< 20	< 10	< 10	< 10	< 20	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	22	43	47	23	25	28	6.2	< 2.0	4.6	22	34	12	< 2.0	10	9.1	10
Cumene (Isopropylbenzene)	SW8260B	UG/L	17	17	16	14	14	20	4	5.2	3.9	2.6	0.59 J	3.9	11	0.60 J	2.4	0.99 J
Dibromomethane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 500	< 500	< 500	< 500	< 500	< 100	< 200	< 200	< 200	< 100	< 100	< 100	< 200	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	130	120	110	100	100	140	24	38	31	20	3.5	30	83	2.7	11	3.5
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 2.0	< 4.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 50	< 50	< 50	< 50	< 50	< 10	< 20	< 20	< 20	< 10	< 10	< 10	< 20	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 50	< 50	< 50	< 50	< 50	< 10	< 20	< 20	< 20	< 10	< 10	< 10	< 20	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	70	67	64	46 J	47 J	80	18 J	21	17 J	11	< 10	13	35	3.7 J	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	1.7 J	1.4 J	1.6 J	1.6 J	1.5 J	2.1	< 2.0	< 2.0	1.0 J	0.28 J	< 1.0	0.39 J	1.0 J	< 1.0	0.39 J	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	1.9 J	1.2 J	1.2 J	< 5.0	0.87 J	1	< 2.0	0.80 J	0.72 J	0.34 J	< 1.0	0.30 J	0.77 J	< 1.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	15	16	15	13	13	19	2.9	4	3.1	2.4	0.60 J	3.2	10	< 1.0	1.9	0.53 J
sec-Butylbenzene	SW8260B	UG/L	2.1 J	2.2 J	2.1 J	1.7 J	1.8 J	2.6	0.94 J	0.95 J	0.84 J	0.51 J	< 1.0	0.67 J	1.9 J	0.21 J	0.69 J	0.39 J
Styrene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	28 J	< 50	< 50	< 50	< 50	13	46	37	37	21	< 10	28	62	< 10	< 10	9.4 J
tert-Butylbenzene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	0.66 J	1.1 J	1.1 J	< 1.0	< 1.0	1.2	1.7 J	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	< 5.0	2.2 J	2.7 J	< 5.0	< 5.0	0.66 J	< 2.0	< 2.0	< 2.0	1.0 J	1.2	0.41 J	< 2.0	2.6	2.6	2.1
Trichloroethene	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	57	54	51
Vinyl Chloride	SW8260B	UG/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 0.50	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15
SAMPLE DATE			1/27/2012	4/19/2012	4/19/2012	8/17/2012	8/17/2012	10/26/2012	4/21/2011	8/22/2011	10/21/2011	1/27/2012	4/19/2012	8/17/2012	10/26/2012	4/22/2011	8/18/2011	10/19/2011
SAMPLE NAME			MW-13	MW-13-Dup	MW-13	MW-13 DUP	MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-15
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-01-1671	12-04-1244	12-04-1244	12-08-1322	12-08-1322	12-10-1904	11-04-1395	11-08-1498	11-10-1572	12-01-1671	12-04-1244	12-08-1322	12-10-1904	11-04-1489	11-08-1356	11-10-1376
Xylenes, Total	SW8260B	UG/L	61	4.4 J	4.7 J	30	29	31	14	36	43	0.82 J	0.31 J	55	72	0.57 J	0.36 J	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	0.56	--	--	--	--	--	--	< 0.20	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	--	--	0.13 J	--	--	--	--	--	--	< 0.20	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	--	--	--	0.14 J	--	--	--	--	--	--	< 0.20	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	--	--	--	0.063 J	--	--	--	--	--	--	< 0.20	--	--
Fluorene	8270SIM	UG/L	--	--	--	--	--	--	< 0.20	--	--	--	--	--	--	< 0.20	--	--
Naphthalene	8270SIM	UG/L	--	--	--	--	--	--	4.5 B	--	--	--	--	--	--	< 0.20	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	3.3 J	--	--	--	--	--	--	< 10	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	--	--	7.9 J	--	--	--	--	--	--	< 10	--	--
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10	--	--
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10	--	--
3/4-Methylphenol	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	< 10	--	--
Benzoic Acid	SW8270C	UG/L	--	--	--	--	--	--	< 50	--	--	--	--	--	--	< 50	--	--
Naphthalene	SW8270C	UG/L	--	--	--	--	--	--	2.5 J	--	--	--	--	--	--	< 10	--	--
Phenol	SW8270C	UG/L	--	--	--	--	--	--	< 10	--	--	--	--	--	--	1.8 J	--	--
TPH as Diesel	SW8015B	UG/L	2600 HD	1700	1800	2500 HD	2500 HD	2600 HD	850	2000	1200 HD	410	69	1200 HD	2300 HD	79	78	130 HD
TPH as Gasoline	SW8015B	UG/L	2600 HD j	1800 HD	2100 HD	1500 HD	1400 HD	1800 HD	830	1200 HD	870 HD	760 HD	320 HD	850 HD	1500	190	320 HD	230 HD
TPH as Motor Oil	SW8015B	UG/L	1300 HD	1200 HD	1200 HD	980 HD	980 HD	1100 HD	360	940	390	< 250	< 250	380 HD	890 HD	< 250	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	190	250	240	140	120	5.4 J	< 50	150	110 b	59	< 50	140	< 50	< 50	14 J	9.1 J
Carbon Chain C7	SW8015B	UG/L	39 J	100 j	55 j	18 J	17 J	33 J	< 50	25 J	17 J	16 J	16 J	14 J	22 J	< 50	16 J	14 J
Carbon Chain C8	SW8015B	UG/L	260	170	170	190	180	220	48 J	100	81	34 J	14 J	120	190	13 J	15 J	11 J
Carbon Chain C9-C10	SW8015B	UG/L	490	360	390	450	450	470	110	220	190	79	19 J	230	420	< 50	21 J	13 J
Carbon Chain C11-C12	SW8015B	UG/L	490	440	470	470	470	510	170	300	210	92	17 J	250	460	15 J	22 J	< 50
Carbon Chain C13-C14	SW8015B	UG/L	370	340	410	450	450	420	140	320	240	72	< 50	280	520	< 50	< 50	< 50
Carbon Chain C15-C16	SW8015B	UG/L	380	370	350	430	420	380	150	340	190	67	< 50	170	320	< 50	< 50	< 50
Carbon Chain C17-C18	SW8015B	UG/L	350	310	330	310	320	330	87	260	120	51	< 50	160	260	< 50	< 50	< 50
Carbon Chain C19-C20	SW8015B	UG/L	240	230	250	190	190	190	64	200	80	29 J	< 50	46 J	150	< 50	< 50	< 50
Carbon Chain C21-C22	SW8015B	UG/L	130	130	140	190	200	220	40 J	130	62	< 50	< 50	59	130	< 50	< 50	20 J
Carbon Chain C23-C24	SW8015B	UG/L	92	51	61	78	51	34 J	24 J	81	40 J	< 50	< 50	19 J	64	< 50	< 50	25 J
Carbon Chain C25-C28	SW8015B	UG/L	75	41 J	55	47 J	60	79	23 J	65	20 J	< 50	< 50	35 J	66	< 50	< 50	31 J
Carbon Chain C29-C32	SW8015B	UG/L	93	37 J	55	24 J	21 J	34 J	16 J	38 J	22 J	< 50	< 50	< 50	21 J	< 50	< 50	29 J
Carbon Chain C33-C36	SW8015B	UG/L	55	9.1 J	18 J	20 J	24 J	32 J	8.1 J	24 J	12 J	< 50	< 50	< 50	23 J	< 50	< 50	19 J
Carbon Chain C37-C40	SW8015B	UG/L	44 J	< 50	< 50	20 J	18 J	12 J	8.2 J	28 J	20 J	< 50	< 50	11 J	7.4 J	< 50	< 50	23 J
Carbon Chain C41-C44	SW8015B	UG/L	20 J	< 50	< 50	11 J	14 J	< 50	< 50	18 J	12 J	< 50	< 50	< 50	< 50	< 50	< 50	17 J
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	3300	2800	3000	3000	3000	3000	890	2300	1400	500	65	1500	2700	< 50	88	210

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-15	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
SAMPLE DATE			1/26/2012	4/18/2012	8/15/2012	10/24/2012	8/19/2011	10/20/2011	1/27/2012	4/19/2012	8/17/2012	10/26/2012	4/22/2011	8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/15/2012
SAMPLE NAME			MW-15	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-01-1597	12-04-1163	12-08-1089	12-10-1714	11-08-1422	11-10-1463	12-01-1671	12-04-1244	12-08-1322	12-10-1904	11-04-1489	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1089
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	**2**	**1.9**	< 1.0	**1.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	**4.3**	**3.5**	**2.4**	**2.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	**12 J**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 50	< 20	< 20	**17 J**	< 20	< 20
Benzene	SW8260B	UG/L	**19**	**19**	**16**	**16**	**0.16 J**	< 0.50	< 0.50	< 0.50	**0.14 J**	**0.88**	**0.36 J**	**1.3**	**1.7**	**4.4**	**1.8**	**0.82**
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	**8.2**	**7.2**	**6.4**	**8.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**8.9**	**11**	**4.8**	**21**	**7.4**	**22**
Cumene (Isopropylbenzene)	SW8260B	UG/L	**0.67 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	**2.2**	**1.2**	**0.40 J**	**0.16 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.16 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	**0.35 J**	**0.21 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	**0.27 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	< 10	**4.6 J**	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	**1.5**	**1.2**	**1**	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.60 J**	**0.37 J**	**0.73 J**	**0.68 J**	**0.70 J**
Trichloroethene	SW8260B	UG/L	**48**	**40**	**34**	**31**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.87 J**	**0.44 J**	**1.1**	**0.68 J**	**0.41 J**
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-15	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
SAMPLE DATE			1/26/2012	4/18/2012	8/15/2012	10/24/2012	8/19/2011	10/20/2011	1/27/2012	4/19/2012	8/17/2012	10/26/2012	4/22/2011	8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/15/2012
SAMPLE NAME			MW-15	MW-15	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-01-1597	12-04-1163	12-08-1089	12-10-1714	11-08-1422	11-10-1463	12-01-1671	12-04-1244	12-08-1322	12-10-1904	11-04-1489	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1089
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	--	--	< 0.20	--	--	--	--	--	**0.041 BJ**	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--
3/4-Methylphenol	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--
Benzoic Acid	SW8270C	UG/L	--	--	--	--	< 50	--	--	--	--	--	< 50	--	--	--	--	--
Naphthalene	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--
Phenol	SW8270C	UG/L	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--
TPH as Diesel	SW8015B	UG/L	**71**	**130**	**83 HD**	**97 HD**	**59 HD**	**91 HD**	**72 HD**	**100 HD**	**81 HD**	**100 HD**	**52**	< 50	**33 HDJ**	< 50	**70**	**34 HDJ**
TPH as Gasoline	SW8015B	UG/L	**240 HD**	**190 HD**	**150 HD**	**160 HD**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	< 50	**8.8 J**	**8.9 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C7	SW8015B	UG/L	< 50	**13 J**	**7.4 J**	**11 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C8	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C9-C10	SW8015B	UG/L	**14 J**	**14 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C11-C12	SW8015B	UG/L	< 50	**14 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C13-C14	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C15-C16	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C17-C18	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C19-C20	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C21-C22	SW8015B	UG/L	< 50	**21 J**	< 50	< 50	< 50	**19 J**	< 50	**21 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C23-C24	SW8015B	UG/L	< 50	**21 J**	< 50	**26 J**	< 50	< 50	< 50	**22 J**	**18 J**	**19 J**	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C25-C28	SW8015B	UG/L	< 50	**22 J**	**23 J**	**39 J**	< 50	**19 J**	< 50	**20 J**	**37 J**	**29 J**	< 50	< 50	< 50	< 50	< 50	**24 J**
Carbon Chain C29-C32	SW8015B	UG/L	< 50	**21 J**	**23 J**	**18 J**	< 50	**11 J**	< 50	**15 J**	**19 J**	< 50	< 50	< 50	< 50	< 50	**16 J**	< 50
Carbon Chain C33-C36	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**12 J**	**10 J**	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C37-C40	SW8015B	UG/L	< 50	< 50	**10 J**	**8.7 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**9.1 J**	< 50	< 50	< 50
Carbon Chain C41-C44	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	< 50	**140**	**73**	**100**	< 50	**48 J**	< 50	**77**	**87**	**58**	< 50	< 50	< 50	< 50	< 50	< 50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-17	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G02D	MW-G02D	MW-G02D
SAMPLE DATE			10/24/2012	8/16/2011	10/18/2011	1/25/2012	4/17/2012	8/14/2012	10/23/2012	8/16/2011	10/18/2011	1/25/2012	4/17/2012	8/14/2012	10/22/2012	8/16/2011	10/18/2011	1/25/2012
SAMPLE NAME			MW-17	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G02D	MW-G02D	MW-G02D
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-10-1714	11-08-1159	11-10-1284	12-01-1511	12-04-1076	12-08-0975	12-10-1638	11-08-1159	11-10-1284	12-01-1511	12-04-1076	12-08-0975	12-10-1554	11-08-1159	11-10-1284	12-01-1511
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.48 J**	< 1.0	**0.57 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 20	**8.3 J**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**6.7 J**	< 20	< 20
Benzene	SW8260B	UG/L	**0.91**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromochloromethane	SW8260B	UG/L	< 1.0	**1.5**	**0.79 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	**4.7 J**	**9.3 J**	**7.4 J**	**4.5 J**	**2.4 J**	**2.0 J**	**1.5 J**	**0.70 J**	< 10	< 10	< 10	< 10	**0.52 J**	**0.45 J**	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	**0.67 J**	**0.50 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	**6.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.83 J**	**0.55 J**	**1.3**	**0.92 J**	< 1.0	**0.57 J**	< 1.0	< 1.0	< 1.0
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	**2.1**	**1.5**	**0.71 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	**0.47 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.7**	**1.1**	**2.2**	**1.1**	**0.88 J**	**0.76 J**	< 1.0	< 1.0	< 1.0
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-17	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G02D	MW-G02D	MW-G02D
SAMPLE DATE			10/24/2012	8/16/2011	10/18/2011	1/25/2012	4/17/2012	8/14/2012	10/23/2012	8/16/2011	10/18/2011	1/25/2012	4/17/2012	8/14/2012	10/22/2012	8/16/2011	10/18/2011	1/25/2012
SAMPLE NAME			MW-17	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01D	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G01S	MW-G02D	MW-G02D	MW-G02D
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-10-1714	11-08-1159	11-10-1284	12-01-1511	12-04-1076	12-08-0975	12-10-1638	11-08-1159	11-10-1284	12-01-1511	12-04-1076	12-08-0975	12-10-1554	11-08-1159	11-10-1284	12-01-1511
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	**0.037 J**	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--
Acenaphthene	8270SIM	UG/L	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--
Acenaphthylene	8270SIM	UG/L	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--
Fluorene	8270SIM	UG/L	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--
Naphthalene	8270SIM	UG/L	--	**0.07 J**	--	--	--	--	--	**0.05 J**	--	--	--	--	--	**0.047 J**	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--
1-Methylnaphthalene	SW8270C	UG/L	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--
2,4-Dimethylphenol	SW8270C	UG/L	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--
3/4-Methylphenol	SW8270C	UG/L	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--
Benzoic Acid	SW8270C	UG/L	--	**2.6 J**	--	--	--	--	--	< 50	--	--	--	--	--	< 50	--	--
Naphthalene	SW8270C	UG/L	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--
Phenol	SW8270C	UG/L	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--
TPH as Diesel	SW8015B	UG/L	**33 HDJ**	**56 HD**	**85 HD**	**120 HD**	**69**	**46 HDJ**	**85 HD**	< 50	< 50	< 50	< 50	< 50	**38 J**	< 50	< 50	< 50
TPH as Gasoline	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C7	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C8	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C9-C10	SW8015B	UG/L	< 50	< 50	< 50	**17 J**	**14 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C11-C12	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C13-C14	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C15-C16	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C17-C18	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C19-C20	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C21-C22	SW8015B	UG/L	< 50	**21 J**	**22 J**	**19 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C23-C24	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	**20 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C25-C28	SW8015B	UG/L	< 50	< 50	**17 J**	**35 J**	< 50	**21 J**	**26 J**	< 50	< 50	< 50	< 50	**22 J**	< 50	< 50	< 50	< 50
Carbon Chain C29-C32	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	**13 J**	**11 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C33-C36	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C37-C40	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**11 J**	< 50	< 50	< 50	< 50	**9.4 J**	< 50
Carbon Chain C41-C44	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	< 50	< 50	< 50	**71**	< 50	< 50	**57**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-G02D	MW-G02D	MW-G02D	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D
SAMPLE DATE			4/17/2012	8/14/2012	10/23/2012	8/17/2011	10/18/2011	1/25/2012	4/17/2012	8/14/2012	10/23/2012	8/17/2011	10/19/2011	1/25/2012	4/18/2012	8/15/2012	10/23/2012	10/23/2012
SAMPLE NAME			MW-G02D	MW-G02D	MW-G02D	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D-DUP
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-04-1076	12-08-0975	12-10-1638	11-08-1264	11-10-1284	12-01-1511	12-04-1076	12-08-0975	12-10-1638	11-08-1264	11-10-1376	12-01-1511	12-04-1163	12-08-1089	12-10-1638	12-10-1638
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	**3.4 J**	**2.7 J**	**1.1 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	**2.8**	**3.3**	**2.4**	**1.9**	**1.1**	**1.1**	< 0.50	< 0.50	< 0.50	**0.31 J**	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Benzene	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	**3.5**	**0.89**	**1.1**	**1.2**	**1**	**0.57**	< 0.50	< 0.50	**0.20 J**	**0.89**	**0.44 J**	**0.46 J**	**0.66**
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10	< 10	**4.8 J**	**2.7 J**	**0.72 J**	**0.45 J**	**0.47 J**	< 10	< 10	**0.69 J**	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	**0.55 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	**3.2**	**1**	**0.80 J**	**0.82 J**	**0.67 J**	**0.71 J**	< 1.0	< 1.0	**1.7**	**11**	**5.3**	**10**	**11**
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	**1.1 J**	**1.1 J**	**1.2 J**	**1.6 J**	**1.3 J**	**1.7 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	< 10	< 10	< 10	**7.2 J**	**8.6 J**	**5.9 J**	**7.2 J**	< 10	< 10	< 10	< 10	< 10	**6.6 J**	< 10	**8.5 J**	**8.0 J**
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-G02D	MW-G02D	MW-G02D	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D
SAMPLE DATE			4/17/2012	8/14/2012	10/23/2012	8/17/2011	10/18/2011	1/25/2012	4/17/2012	8/14/2012	10/23/2012	8/17/2011	10/19/2011	1/25/2012	4/18/2012	8/15/2012	10/23/2012	10/23/2012
SAMPLE NAME			MW-G02D	MW-G02D	MW-G02D	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G02S	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D	MW-G03D-DUP
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-04-1076	12-08-0975	12-10-1638	11-08-1264	11-10-1284	12-01-1511	12-04-1076	12-08-0975	12-10-1638	11-08-1264	11-10-1376	12-01-1511	12-04-1163	12-08-1089	12-10-1638	12-10-1638
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1-Methylnaphthalene	8270SIM	UG/L	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	--
Acenaphthene	8270SIM	UG/L	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	--
Acenaphthylene	8270SIM	UG/L	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	--
Fluorene	8270SIM	UG/L	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	--
Naphthalene	8270SIM	UG/L	--	--	--	**0.047 J**	--	--	--	--	--	**0.063 J**	--	--	--	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	--
1-Methylnaphthalene	SW8270C	UG/L	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	--
2,4-Dimethylphenol	SW8270C	UG/L	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	--
3/4-Methylphenol	SW8270C	UG/L	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	--
Benzoic Acid	SW8270C	UG/L	--	--	--	< 50	--	--	--	--	--	< 50	--	--	--	--	--	--
Naphthalene	SW8270C	UG/L	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	--
Phenol	SW8270C	UG/L	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--	--	--	--
TPH as Diesel	SW8015B	UG/L	< 50	**38 HDJ**	< 50	**98 HD**	**62**	**92**	**86**	**120 HD**	**100**	**86 HD**	**50 HDJ**	**74**	**110**	**45 HDJ**	**120 HD**	**77 HD**
TPH as Gasoline	SW8015B	UG/L	< 50	< 50	< 50	**67 HD**	**49 HDJ**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	< 50	< 50	**4.2 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C7	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C8	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C9-C10	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**33 J**	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C11-C12	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**18 J**	< 50	< 50	< 50
Carbon Chain C13-C14	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**16 J**	< 50	< 50	< 50
Carbon Chain C15-C16	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**24 J**	< 50	< 50	< 50	**19 J**	< 50	**19 J**	< 50
Carbon Chain C17-C18	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C19-C20	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C21-C22	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C23-C24	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C25-C28	SW8015B	UG/L	< 50	**20 J**	< 50	< 50	< 50	< 50	< 50	**52**	< 50	< 50	< 50	< 50	< 50	< 50	**25 J**	**19 J**
Carbon Chain C29-C32	SW8015B	UG/L	< 50	**9.0 J**	< 50	< 50	< 50	< 50	< 50	< 50	**8.9 J**	< 50	< 50	< 50	< 50	< 50	**20 J**	**15 J**
Carbon Chain C33-C36	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**9.6 J**	**8.8 J**
Carbon Chain C37-C40	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**12 J**	< 50	< 50	< 50	< 50	< 50	**10 J**	< 50
Carbon Chain C41-C44	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**7.8 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	**52**	**52**	< 50	< 50	< 50	**53**	< 50	**84 j**	< 50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04S	MW-G04S	MW-G04S	MW-G04S
SAMPLE DATE			8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/15/2012	10/24/2012	8/17/2011	10/18/2011	1/25/2012	4/17/2012	8/14/2012	10/23/2012	8/17/2011	10/18/2011	1/25/2012	4/17/2012
SAMPLE NAME			MW-603S	MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04S	MW-G04S	MW-G04S	MW-G04S
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1089	12-10-1714	11-08-1264	11-10-1284	12-01-1511	12-04-1076	12-08-0975	12-10-1638	11-08-1264	11-10-1284	12-01-1511	12-04-1076
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.6**	**0.42 J**	**0.36 J**	**0.51 J**
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	**2.1**	**2.7**	**2.8**	**2.7**	**2.2**	**2.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	**3.1**	**2.9**
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.59 J**	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	SW8260B	UG/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**7.0 J**	< 20	< 20	< 20
Benzene	SW8260B	UG/L	**3.2**	**5**	**3.4**	**2**	**1.1**	**0.81**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**260**	**62**	**39**	**46**
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	**0.48 J**	< 10	< 10	< 10	< 10	< 10	**1.2 J**	**0.54 J**	< 10	< 10	< 10	< 10	**0.74 J**	**1.7 J**	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.59 J**	< 1.0	< 1.0	**0.50 J**
Chloromethane	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	**40**	**71**	**59**	**45**	**29**	**31**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.90 J**	< 1.0	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	**0.36 J**	**0.41 J**	**0.46 J**	**0.51 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Ethylbenzene	SW8260B	UG/L	**0.26 J**	**0.36 J**	**0.34 J**	**0.24 J**	**0.16 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**12**	**1.9**	**1.9**	**2.6**
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.52 J**	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	**30**	**43**	**47**	**39**	< 10	**41**	< 10	< 10	< 10	< 10	< 10	< 10	**190**	**250**	**200**	**220**
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.6**	**1**	**0.94 J**	**0.96 J**
trans-1,2-Dichloroethene	SW8260B	UG/L	**1.5**	**2.6**	**2.2**	**1.8**	**1.1**	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04S	MW-G04S	MW-G04S	MW-G04S
SAMPLE DATE			8/18/2011	10/19/2011	1/26/2012	4/18/2012	8/15/2012	10/24/2012	8/17/2011	10/18/2011	1/25/2012	4/17/2012	8/14/2012	10/23/2012	8/17/2011	10/18/2011	1/25/2012	4/17/2012
SAMPLE NAME			MW-603S	MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G03S	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04D	MW-G04S	MW-G04S	MW-G04S	MW-G04S
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	11-08-1356	11-10-1376	12-01-1597	12-04-1163	12-08-1089	12-10-1714	11-08-1264	11-10-1284	12-01-1511	12-04-1076	12-08-0975	12-10-1638	11-08-1264	11-10-1284	12-01-1511	12-04-1076
Xylenes, Total	SW8260B	UG/L	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.8	1.3	1.2	1.3
1-Methylnaphthalene	8270SIM	UG/L	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--
2-Methylnaphthalene	8270SIM	UG/L	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--
Acenaphthene	8270SIM	UG/L	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--
Acenaphthylene	8270SIM	UG/L	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--
Fluorene	8270SIM	UG/L	< 0.20	--	--	--	--	--	< 0.20	--	--	--	--	--	< 0.20	--	--	--
Naphthalene	8270SIM	UG/L	0.05 J	--	--	--	--	--	< 0.20	--	--	--	--	--	0.4	--	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--
1-Methylnaphthalene	SW8270C	UG/L	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--
2,4-Dimethylphenol	SW8270C	UG/L	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--
3/4-Methylphenol	SW8270C	UG/L	< 10	--	--	--	--	--	1.7 J	--	--	--	--	--	< 10	--	--	--
Benzoic Acid	SW8270C	UG/L	< 50	--	--	--	--	--	< 50	--	--	--	--	--	< 50	--	--	--
Naphthalene	SW8270C	UG/L	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--
Phenol	SW8270C	UG/L	< 10	--	--	--	--	--	< 10	--	--	--	--	--	< 10	--	--	--
TPH as Diesel	SW8015B	UG/L	37 J	34 HDJ	54	76	89 HD	99 HD	110 HD	43 J	36 J	37 J	42 HDJ	42 HDJ	90 HD	100 HD	83 HD	110
TPH as Gasoline	SW8015B	UG/L	78 HD	83 HD	100 HD	66 HD	< 50	62	< 50	< 50	< 50	< 50	< 50	< 50	710 HD	210 HD	160 HD	230
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	< 50	4.5 J	< 50	2.3 J	32 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	31 J	12 J	15 J
Carbon Chain C7	SW8015B	UG/L	< 50	< 50	10 J	< 50	16 J	6.9 J	< 50	< 50	< 50	< 50	< 50	< 50	21 J	30 J	23 J	11 J
Carbon Chain C8	SW8015B	UG/L	< 50	10 J	13 J	< 50	10 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	57	38 J	44 J	32 J
Carbon Chain C9-C10	SW8015B	UG/L	14 J	14 J	18 J	< 50	< 50	< 50	16 J	< 50	< 50	< 50	< 50	< 50	59	45 J	39 J	30 J
Carbon Chain C11-C12	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	23 J	29 J	< 50	16 J
Carbon Chain C13-C14	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	17 J	< 50	< 50
Carbon Chain C15-C16	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C17-C18	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C19-C20	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C21-C22	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C23-C24	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	< 50	32 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C25-C28	SW8015B	UG/L	< 50	< 50	< 50	< 50	23 J	30 J	37 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon Chain C29-C32	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	20 J	< 50	< 50	< 50	< 50	25 J	< 50	< 50	< 50	< 50	< 50
Carbon Chain C33-C36	SW8015B	UG/L	< 50	< 50	< 50	< 50	< 50	9.4 J	< 50	< 50	< 50	< 50	10 J	< 50	< 50	< 50	< 50	< 50
Carbon Chain C37-C40	SW8015B	UG/L	< 50	< 50	< 50	< 50	7.6 J	9.1 J	< 50	9.4 J	< 50	< 50	< 50	< 50	< 50	11 J	< 50	< 50
Carbon Chain C41-C44	SW8015B	UG/L	< 50	< 50	< 50	< 50	8.0 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	< 50	< 50	< 50	< 50	96	76	86	< 50	< 50	< 50	< 50	< 50	160	200	120	100

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-G04S	MW-G04S
SAMPLE DATE			8/14/2012	10/23/2012
SAMPLE NAME			MW-G04S	MW-G04S
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-08-0975	12-10-1638
1,1,1,2-Tetrachloroethane	SW8260B	UG/L	< 1.0	< 1.0
1,1,1-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0
1,1,2-Trichloroethane	SW8260B	UG/L	< 1.0	< 1.0
1,1-Dichloroethane	SW8260B	UG/L	< 1.0	< 1.0
1,1-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0
1,2,3-Trichloropropane	SW8260B	UG/L	< 5.0	< 5.0
1,2,4-Trimethylbenzene	SW8260B	UG/L	**0.55 J**	**0.50 J**
1,2-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0
1,2-Dichloroethane	SW8260B	UG/L	**3.4**	**1.7**
1,3,5-Trimethylbenzene	SW8260B	UG/L	< 1.0	< 1.0
1,3-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0
1,4-Dichlorobenzene	SW8260B	UG/L	< 1.0	< 1.0
2-Butanone (Methyl Ethyl Ketone)	SW8260B	UG/L	< 10	< 10
4-Chlorotoluene	SW8260B	UG/L	< 1.0	< 1.0
4-Methyl-2-Pentanone	SW8260B	UG/L	< 10	< 10
Acetone	SW8260B	UG/L	< 20	< 20
Benzene	SW8260B	UG/L	**65**	**110**
Bromochloromethane	SW8260B	UG/L	< 1.0	< 1.0
Carbon Disulfide	SW8260B	UG/L	< 10	< 10
Chlorobenzene	SW8260B	UG/L	< 1.0	< 1.0
Chloroform	SW8260B	UG/L	< 1.0	< 1.0
Chloromethane	SW8260B	UG/L	< 10	< 10
cis-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0
Cumene (Isopropylbenzene)	SW8260B	UG/L	< 1.0	< 1.0
Dibromomethane	SW8260B	UG/L	< 1.0	< 1.0
Diisopropyl Ether (DIPE)	SW8260B	UG/L	< 2.0	< 2.0
Ethanol	SW8260B	UG/L	< 100	< 100
Ethylbenzene	SW8260B	UG/L	**3.1**	**5.1**
Ethyl-t-Butyl Ether (ETBE)	SW8260B	UG/L	< 2.0	< 2.0
Freon 113	SW8260B	UG/L	< 10	< 10
Methylene Chloride	SW8260B	UG/L	< 10	< 10
Methyl-tert-Butyl Ether	SW8260B	UG/L	< 1.0	< 1.0
Naphthalene	SW8260B	UG/L	< 10	< 10
n-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0
p-Isopropyltoluene	SW8260B	UG/L	< 1.0	< 1.0
Propylbenzene	SW8260B	UG/L	< 1.0	< 1.0
sec-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0
Styrene	SW8260B	UG/L	< 1.0	< 1.0
tert-Butyl Alcohol (TBA)	SW8260B	UG/L	**190**	**190**
tert-Butylbenzene	SW8260B	UG/L	< 1.0	< 1.0
Tetrachloroethene	SW8260B	UG/L	< 1.0	< 1.0
Toluene	SW8260B	UG/L	**1**	**1.3**
trans-1,2-Dichloroethene	SW8260B	UG/L	< 1.0	< 1.0
Trichloroethene	SW8260B	UG/L	< 1.0	< 1.0
Vinyl Chloride	SW8260B	UG/L	< 0.50	< 0.50

APPENDIX E-1
Historical Groundwater Analytical Results - VOCs and Hydrocarbons
Former Kast Property
Carson, California

LOCATION NAME			MW-G04S	MW-G04S
SAMPLE DATE			8/14/2012	10/23/2012
SAMPLE NAME			MW-G04S	MW-G04S
SAMPLE DELIVERY GROUP (SDG)	Method	Unit	12-08-0975	12-10-1638
Xylenes, Total	SW8260B	UG/L	0.70 J	0.91 J
1-Methylnaphthalene	8270SIM	UG/L	--	--
2-Methylnaphthalene	8270SIM	UG/L	--	--
Acenaphthene	8270SIM	UG/L	--	--
Acenaphthylene	8270SIM	UG/L	--	--
Fluorene	8270SIM	UG/L	--	--
Naphthalene	8270SIM	UG/L	--	--
1,2-Dichlorobenzene	SW8270C	UG/L	--	--
1,4-Dichlorobenzene	SW8270C	UG/L	--	--
1-Methylnaphthalene	SW8270C	UG/L	--	--
2,4-Dimethylphenol	SW8270C	UG/L	--	--
3/4-Methylphenol	SW8270C	UG/L	--	--
Benzoic Acid	SW8270C	UG/L	--	--
Naphthalene	SW8270C	UG/L	--	--
Phenol	SW8270C	UG/L	--	--
TPH as Diesel	SW8015B	UG/L	110 HD	99 HD
TPH as Gasoline	SW8015B	UG/L	180 HD	360 HD
TPH as Motor Oil	SW8015B	UG/L	< 250	< 250
Carbon Chain C6	SW8015B	UG/L	29 J	77
Carbon Chain C7	SW8015B	UG/L	14 J	22 J
Carbon Chain C8	SW8015B	UG/L	31 J	41 J
Carbon Chain C9-C10	SW8015B	UG/L	39 J	32 J
Carbon Chain C11-C12	SW8015B	UG/L	19 J	15 J
Carbon Chain C13-C14	SW8015B	UG/L	16 J	< 50
Carbon Chain C15-C16	SW8015B	UG/L	< 50	< 50
Carbon Chain C17-C18	SW8015B	UG/L	< 50	< 50
Carbon Chain C19-C20	SW8015B	UG/L	< 50	< 50
Carbon Chain C21-C22	SW8015B	UG/L	< 50	< 50
Carbon Chain C23-C24	SW8015B	UG/L	< 50	< 50
Carbon Chain C25-C28	SW8015B	UG/L	20 J	< 50
Carbon Chain C29-C32	SW8015B	UG/L	10 J	8.9 J
Carbon Chain C33-C36	SW8015B	UG/L	11 J	< 50
Carbon Chain C37-C40	SW8015B	UG/L	< 50	< 50
Carbon Chain C41-C44	SW8015B	UG/L	< 50	< 50
Total Petroleum Hydrocarbons (C6-C44)	SW8015B	UG/L	190	200

Appendix D

Former Reservoir Bottom Evaluation

The depth of the former reservoir bottoms below the current finished grade of the Subject Property is not necessarily 10 feet as assumed by Shell's consultants (URS and Geosyntec), but varies between reservoirs and throughout the Subject Property because the surface grade has been significantly altered from when the Subject Property was used by Shell for crude oil storage in Reservoirs 5, 6, and 7. Surface elevations across the Subject Property rise in excess of 10 feet from northwest to southeast, and approximately 5 feet from west to east. Therefore, the reservoir bottoms tend to be shallower than 10 feet deep along the northern and western portions of the Subject Property in former Reservoirs 5 and 7 (see Figures D1-D5), while the bottom of former Reservoir 6 is almost entirely greater than 10 feet deep (see Figures D1, D6 and D7). Due to its shallow depth, the western-most portion of the concrete reservoir bottom in former Reservoir 5 (at Marbella Avenue parcels) was in fact removed because it did not meet the County-required minimum of 7 feet of fill cover over the bottom if it were to remain in place.[1]

Below is a detailed discussion of the evaluation and results for each reservoir followed by a discussion of the how the changes in surface elevations affect the interpretation of the soil results as they relate to the former reservoir floors.

Former Reservoir 5

The depth to the former concrete bottom of former Reservoir 5 was based on measurements made by URS in 2012 during the drilling of geotechnical soil borings and during pilot test excavation activities performed at 24612 Neptune Avenue.

In the two geotechnical soil borings drilled in the front yard of the Neptune parcel, N24612G1 and N24612G2, the measured depths to the former concrete floor were 8.5 feet bgs and 7.5 feet bgs, respectively.[2] These borings were drilled in the eastern and western portions of the front yard 26 feet apart and had a surface elevation difference of approximately one foot.[3] Therefore, the two measured depths are in agreement with the former reservoir bottom being generally flat across the short distance between the two borings.

During the excavation pilot test in the front yard of 24612 Neptune Avenue, the former concrete floor was exposed and its presence confirmed visually as a continuous solid slab of concrete approximately four to six inches thick over an area measuring approximately 27 feet long by 12 feet wide. The depth to the former concrete bottom of the reservoir was measured in the

[1] Pacific Soils Engineering, Inc. 1968. *Tract No. 24836, lots 1-62 Inclusive, County of Los Angeles, California.* June 11. Page 2, Item 3.
[2] URS Corporation. 2013. *Assessment of Environmental Impact and Feasibility of Removal of Residual Concrete Reservoir Slabs, Former Kast Property, Carson, California*. June 28. Page 2-7.
[3] URS Corporation. 2013. *Excavation Pilot Test, 24612 Neptune Avenue, Former Kast Property, Carson, California*. January 4. Appendix B. Drawing EV-3.

excavation to be approximately 8.0 to 8.5 feet bgs, which agrees with the measurements made in the geotechnical borings.[4]

The slope of the reservoir bottom is indicated as a 3.75 inches rise per 100 feet run from the center of the reservoir.[5] The ground surface elevations were based on the individual parcel elevations as shown on the final tract maps and were adjusted using actual land survey measurements performed by J.B. Koenig & Associates, Inc. throughout the study area as reported by URS/Geosyntec.

Former Reservoir 6

The depth to the concrete bottom of former Reservoir 6 was based on measurements made by URS in 2012 during the drilling of two geotechnical soil borings, R24736G1 and R24726G2, located in the front yard at 24736 Ravenna Avenue.

The measured depth to the former concrete floor was 10.5 feet bgs in R24736G1 and 10 feet bgs in R24736G2.[6] These borings were drilled in the eastern and western portions of the front yard and were located approximately 23 feet apart. Therefore they had a surface elevation difference between them of approximately 0.5 feet to 1.0 foot. Based on the above, the two measured depths are consistent and demonstrate that the former reservoir bottom is generally flat across the area of the front yard.

The slope of the reservoir bottom is indicated as a 3.75 inches rise per 100 feet run from the center of the reservoir.[7] The ground surface elevations were based on the individual parcel elevations as shown on the final tract maps and were adjusted using actual land survey measurements performed by J.B. Koenig & Associates, Inc. throughout the study area as reported by URS/Geosyntec.

Former Reservoir 7

The depth to the former concrete bottom of former Reservoir 7 was based on measurements made by URS in 2012 during the drilling of a geotechnical soil boring at 24502 Marbella Avenue and by Pacific Soils in 1968 during a sewer trench excavation in Neptune Avenue.

[4] URS Corporation. 2013. *Excavation Pilot Test, 24612 Neptune Avenue, Former Kast Property, Carson, California*. January 4. Page 5-5.
[5] Vollmer, L. 2013. *Volume I Videotaped Deposition of Leroy H. Vollmer*. March 15. Exhibit 6.
[6] URS Corporation. 2013. *Follow-up Phase II Indoor Air and Sub-Slab Soil Vapor Sampling Report for 24736 Ravenna Avenue, Carson, California*. August 2.
[7] Vollmer, L. 2013. *Volume I Videotaped Deposition of Leroy H. Vollmer*. March 15. Exhibit 6.

Appendix D

Former Reservoir Bottom Evaluation

In the geotechnical soil boring (M24502G1) drilled in the front yard of 24502 Marbella Avenue, the measured depth to the former concrete floor was 7.0 feet bgs.[8]

The 1968 sewer trench excavation was performed in Neptune Avenue in front of 24402, 24403, 24406, and 24409 Neptune Avenue. The depth to the concrete bottom of former Reservoir 7 within the trench was measured to be from 7.2 to 7.4 feet bgs.[9,10] These depth measurements are in general agreement as the locations have similar surface elevations and both represent the outer portion of the bottom of the former reservoir.

The slope of the reservoir bottom is indicated as a 3.75 inches rise per 100 feet run from the center of the reservoir.[11] The ground surface elevations were based on the individual parcel elevations as shown on the final tract maps and were adjusted using actual land survey measurements performed by J.B. Koenig & Associates, Inc. throughout the study area as reported by URS/Geosyntec.

Cross-Sections of Each Former Reservoir

Two cross-sections were drawn for each former oil reservoir in a north-south and east-west direction to depict the depth relationships of the former reservoir floors with respect to ground surface elevations at each lot intersected by the cross-section. A 10-foot depth line paralleling the ground surface was plotted on each cross-section representing the depth profile of where soil samples collected from a depth of 10 feet below ground surface would be located in relation to the former reservoir concrete floors. The locations of the cross-sections are shown in Figure D1. Figures D2 and D3 depict the cross-sections for former Reservoir 5, Figures D6 and D7 depict the cross-sections for former Reservoir 6, and Figures D4 and D5 depict the cross-sections for former Reservoir 7.

Based on this information, the depth of the former reservoir floor was determined at each of the individual residential parcels. Figure D8 depicts the portions of each former reservoir where the depth of the former floor is less than 10 feet (shown in green) and greater than 10 feet (shown in pink). These areas show a distribution similar to those discussed above, whereas within former Reservoir 5, all but the eastern edge of the floor is at a depth of less than 10 feet. In former Reservoir 7, the northwest quarter of the bottom is at a depth less than 10 feet and the remainder is greater than 10 feet deep. In Reservoir 6, the entire former floor is greater than 10 feet deep.

---

[8] URS Corporation. 2012. *Follow-Up Phase II Indoor Air, Sub-Slab Soil Vapor, and Soil Sampling Report for 24502 Marbella Avenue*, June 27. Boring Log for Soil Boring M24502G1.

[9] Pacific Soils Engineering, Inc. 1968. *Lots 1, 2, 15 and 16, Tract No. 28564 in the County of Los Angeles, California. Addendum to Compaction Report*. February 7. p. 1.

[10] Pacific Soils Engineering, Inc. 1968. *Tract No. 28564, lots 1-73 inclusive in the County of Los Angeles, California*. January 29. p. 2.

[11] Vollmer, L. 2013. *Volume I, Videotaped Deposition of Leroy H. Vollmer*. March 15. Exhibit 6.

Appendix D

Former Reservoir Bottom Evaluation

URS Boring Refusal Map

Figure D9 is a map created by URS depicting boring refusal depths encountered throughout the Subject Property. Although some of refusals may have been caused by encountering the former reservoir floors, many could have been the result of the sampling methodology. Most samples were collected with a hand auger where refusal can occur easily due to even small pieces of concrete, gravel or other debris being encountered in the borehole. Compare this to soil borings located in the streets which were drilled using mechanized methods, where very few, if any, refusals occurred.

The refusals at hand auger boring locations could have been caused by any number of things other than the actual former reservoir floor. For example, it is known that during the dismantling of the former reservoirs, the concrete sidewalls were removed, placed above the reservoir floors, broken/crushed, covered with soil, and compacted. Refusals also occurred in areas outside the former reservoir limits at shallow depths throughout the Subject Property. Therefore, refusal depths cannot necessarily be interpreted to be the depth of the concrete floor. For these reasons, URS's refusal map does not provide a reliable indication of the depth of the former reservoir floors beneath the ground surface and should not be used for this purpose.

The hand auger refusal depths were evaluated in several different ways to understand their relation to the depths of the former reservoir concrete floors. Figure D10 depicts the soil sample locations at the Subject Property color-coded based on their maximum completion depths beneath the ground surface. The boring locations colored black reached depths ranging from 10 to 15 feet, while other colors indicate refusals and limited completion depths. Figure D11 is the same map but is restricted to borings located within the former reservoir bottom footprint. Figure D12 further simplifies this information by color-coding all the sample locations that penetrated greater than 10 feet in red and all those that were less than 10 feet in green.

Figure D13 depicts the sample locations where refusals occurred at depths of less than 10 feet bgs. As shown on the figure, at the Marbella Avenue parcels located within the footprint of former Reservoir 5, even though the depth to the floor was known to be less than 10 feet, refusals were not encountered in this area. This is not unexpected since the concrete was removed from this same portion of the former reservoir to achieve the required minimum fill cover depth over the floors of the former reservoirs.

A comparison of these maps with Figure D8 reveals that there is good agreement between the locations where samples were successfully collected to a depth of 10 feet and the areas of the former reservoirs where the floors are greater than 10 feet deep. Further, there is good agreement between the sample locations where refusals occurred at depths of less than 10 feet and the portions of the former reservoir floors that are less than 10 feet deep.

Figures D14 is a map originally created by Geosyntec depicting TPH as Diesel (TPHd) plumes in shallow soil at 10 feet bgs with an overlay of the reservoir floor depths from Waterstone's

Figure D8 placed on top. The areas colored with a green overlay are the portion of the former reservoirs where the results represent the soil conditions below the former reservoir bottom. Alternatively, the areas colored with a pink overlay are the portions of the former reservoirs where the results represent the soil conditions above the former reservoir floor. As shown by this overlay, most of the soil data at 10 feet bgs within former Reservoir 5 (all but the extreme eastern edge) represents the conditions below the former reservoir bottom, while all of the soil data at 10 feet bgs within former Reservoir 6 represents the conditions above the former reservoir bottom. For former Reservoir 7, some 10-foot bgs samples were collected above while others were collected below the former bottom of the reservoir. Therefore, the plume map prepared by Geosyntec for the 10-foot depth represents a combination of the results for above and below the floors and cannot be used to evaluate the soil conditions above or below the floors of the former reservoirs without the understanding of how the sample depths relate to the depths of the former reservoir floors.

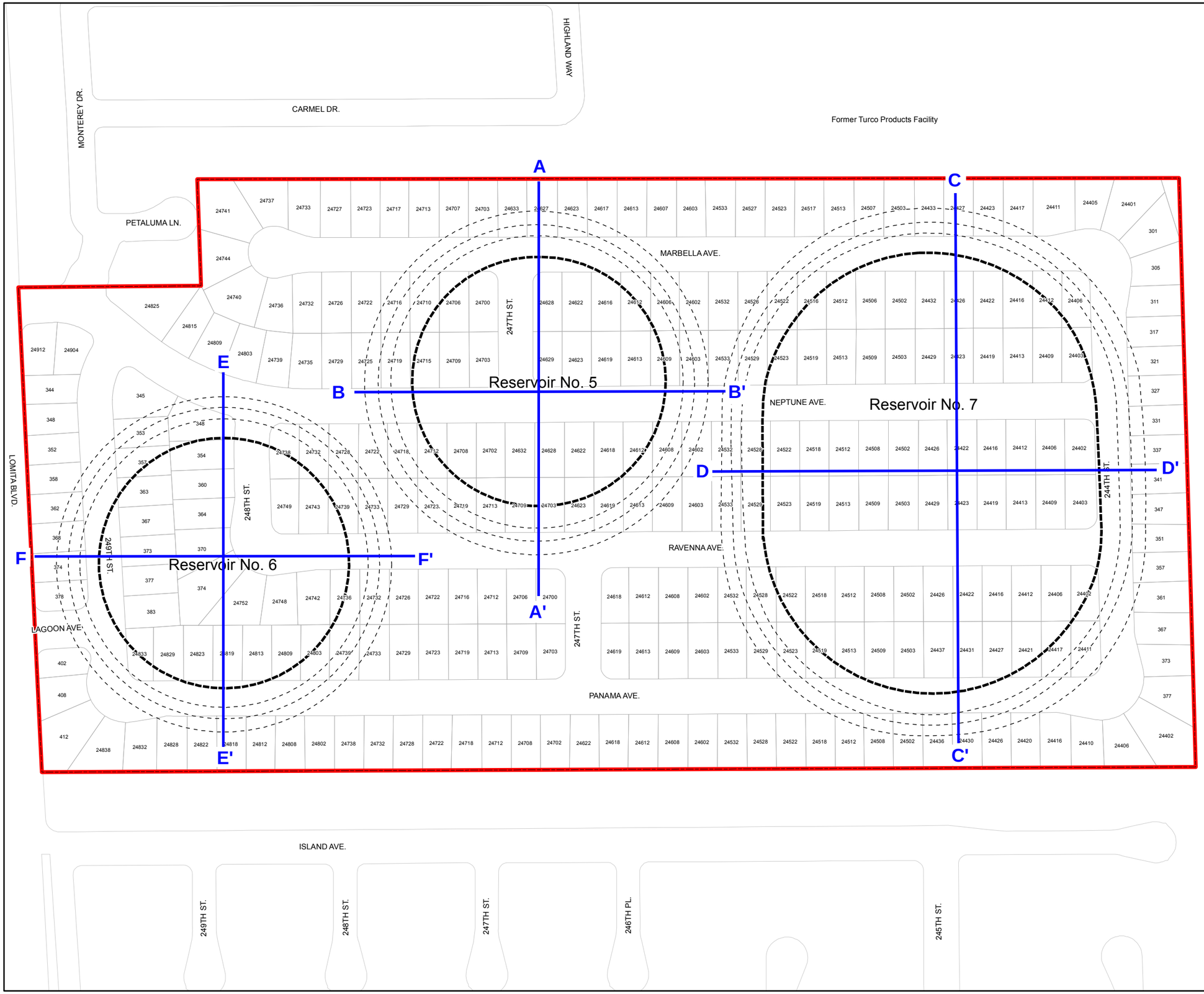


Figure D1
Cross Section Location Map

Former Kast Property Tank Farm
Carson, CA 90744

Legend

- Project Boundary
- Site Parcels
- Former Reservoir Berm
- Former Reservoir Floor
- Cross Section Reference Line

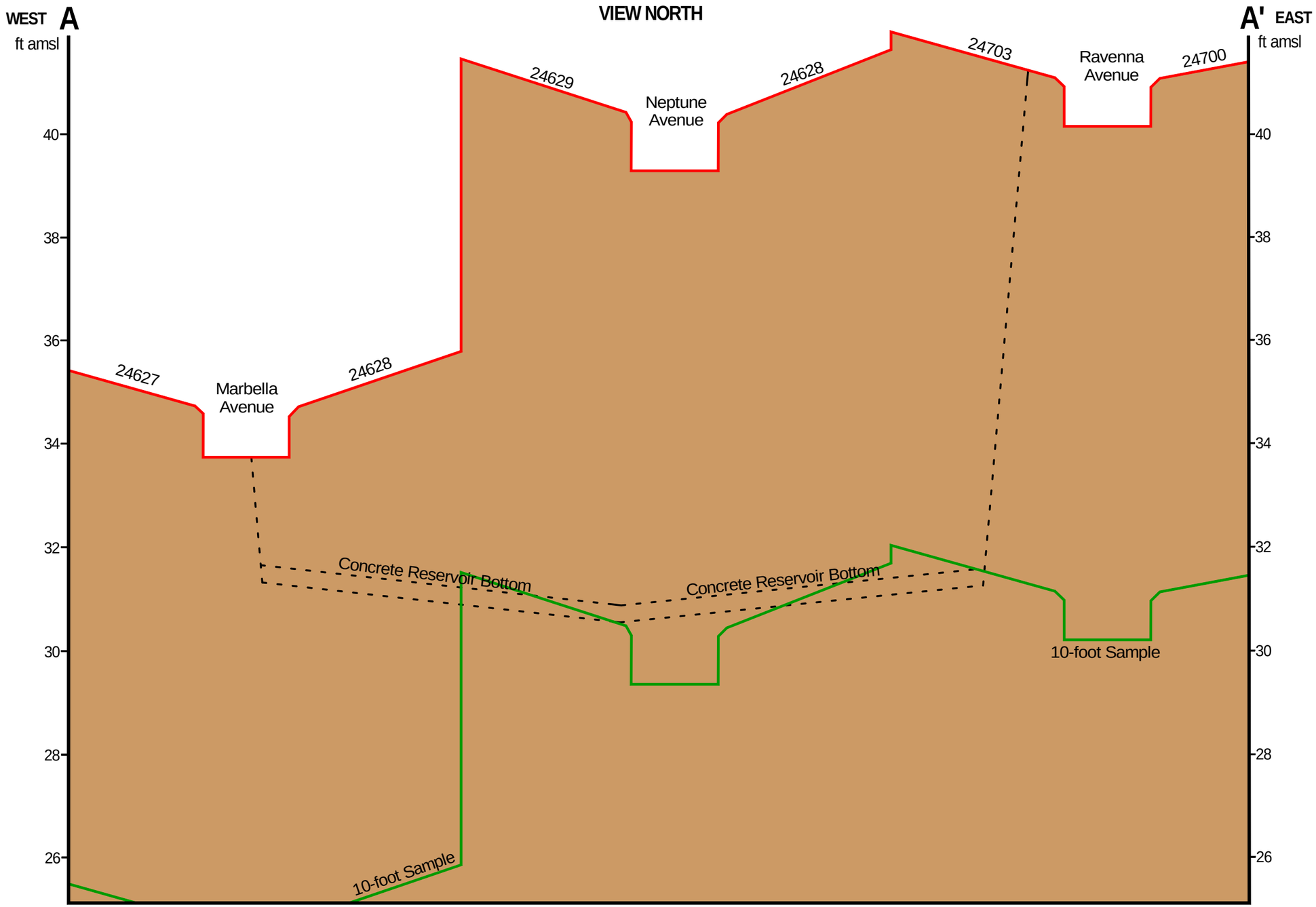
Note: Floor and Berm locations are based on tract maps and grading plans submitted to LA County by Barclay, 1967-68. (Image Rectification)

N

0 160 320 Feet

WATERSTONE ENVIRONMENTAL, INC
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA, 92806

Drafted By: MB	Project No:12-219
Approved By: JVD	Date: 1/3/2014



WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: HLF	Project No: 12-219
Approved By: JVD	Date: 1/6/2014

Legend

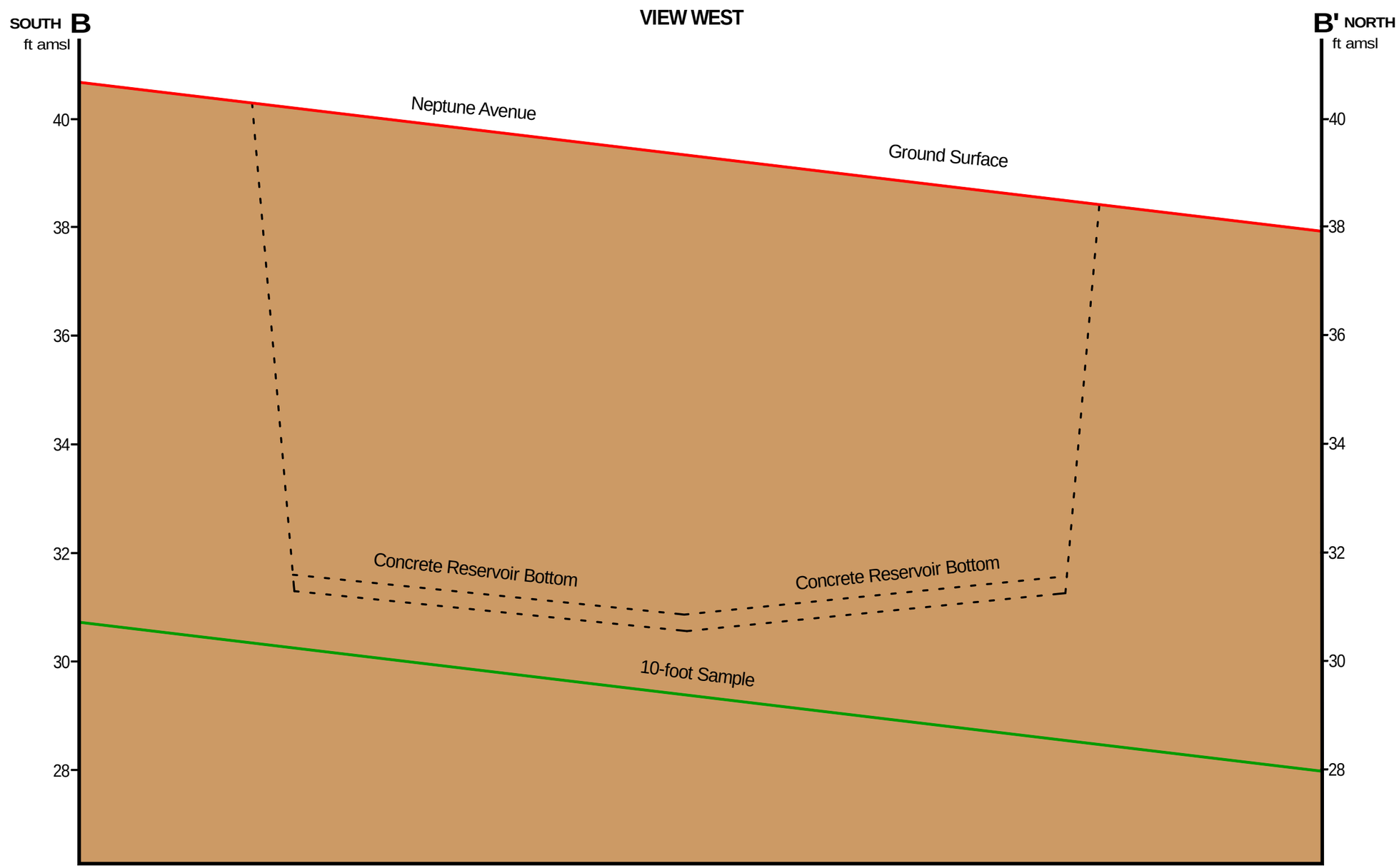
- Elevation of Ground Surface
- Elevation of 10-foot Sample

Vertical Scale: 0, 1', 2'

Horizontal Scale: 0, 30', 60'

Figure D2
Cross Section A-A'
Reservoir 5 West - East

Former Kast Property Tank Farm
Carson, CA 90744



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2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: HLF	Project No: 12-219
Approved By: JVD	Date: 1/6/2014

Legend

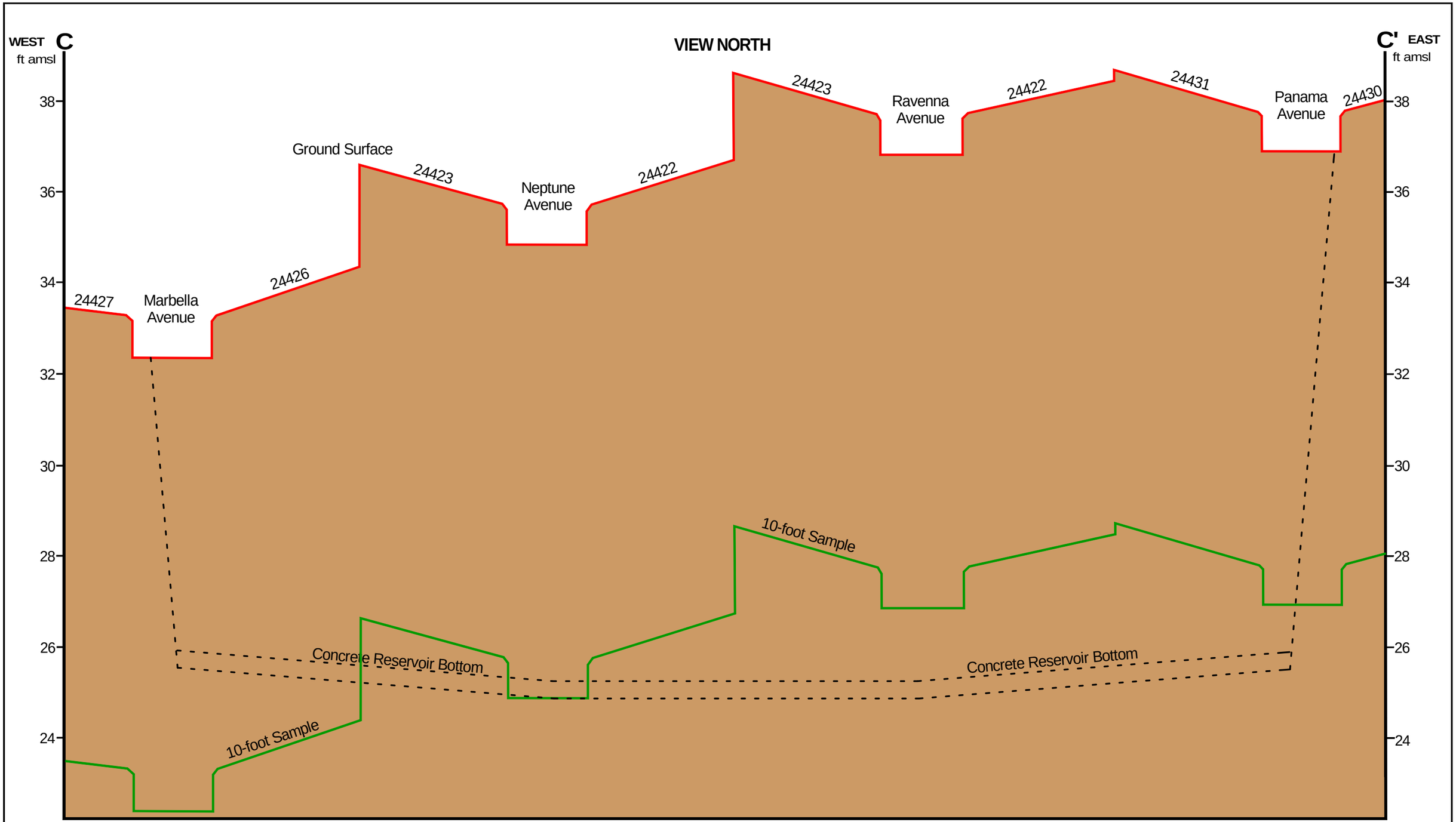
- Elevation of Ground Surface
- Elevation of 10-foot Sample

Vertical Scale
0
1'
2'

Horizontal Scale
0 30' 60'

Figure D3
Cross Section B-B'
Reservoir 5 South - North

Former Kast Property Tank Farm
Carson, CA 90744



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2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: HLF	Project No: 12-219
Approved By: JVD	Date: 1/6/2014

Legend

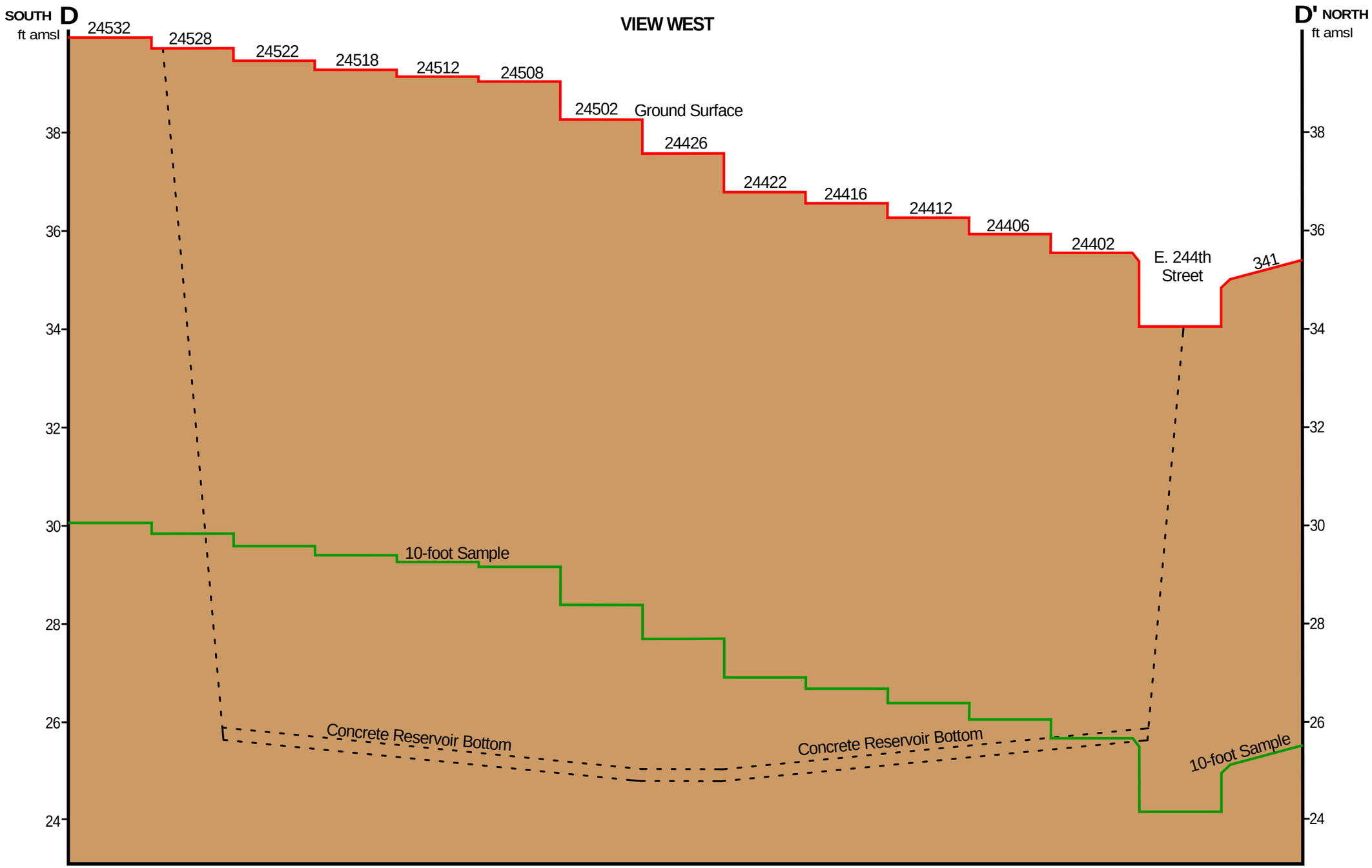
- Elevation of Ground Surface
- Elevation of 10-foot Sample

Vertical Scale: 0, 1', 2'

Horizontal Scale: 0, 30', 60'

Figure D4
Cross Section C-C'
Reservoir 7 West - East

Former Kast Property Tank Farm
Carson, CA 90744



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2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: HLF	Project No: 12-219
Approved By: JVD	Date: 1/6/2014

Legend

Elevation of Ground Surface

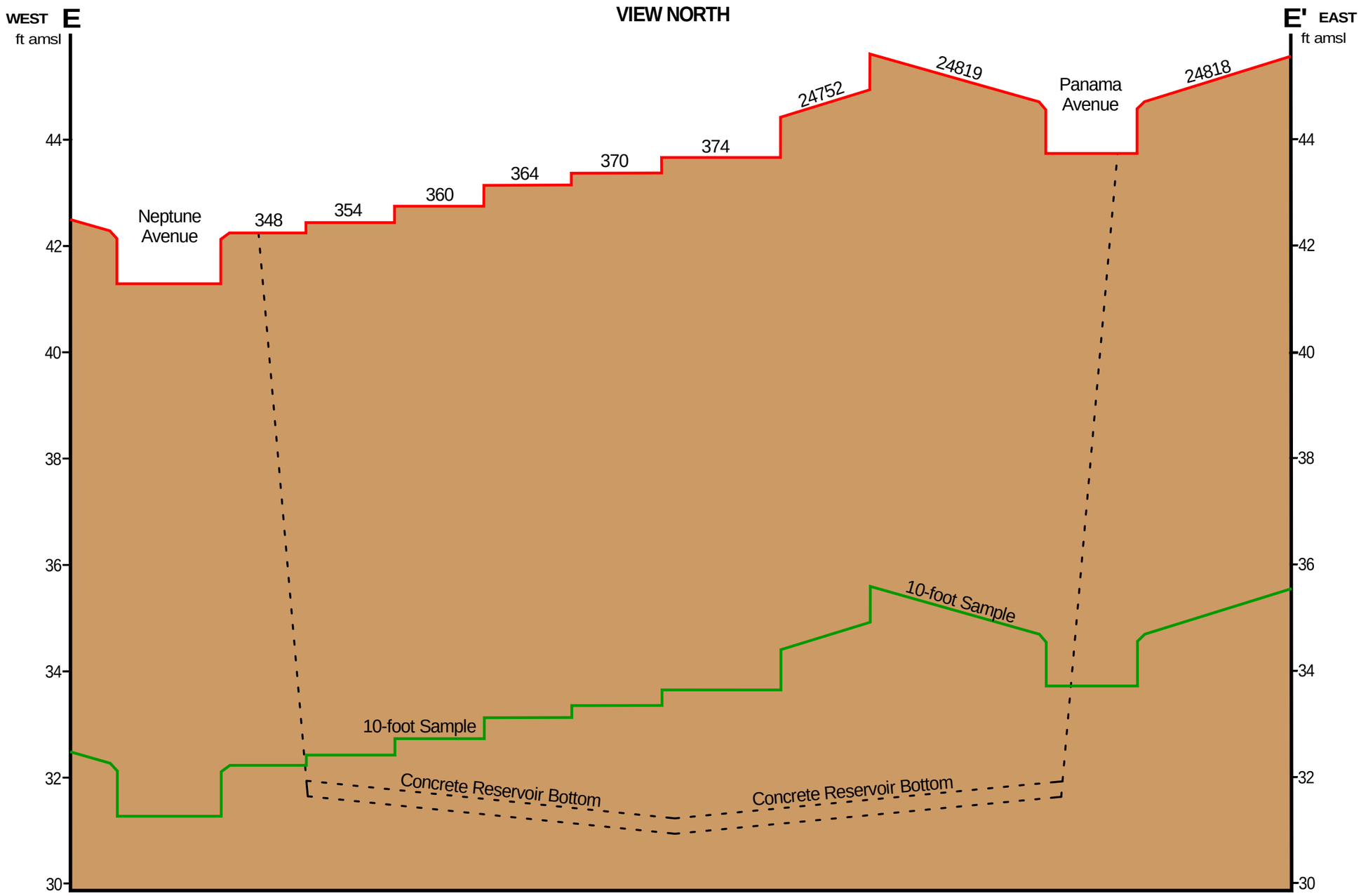
Elevation of 10-foot Sample

Vertical Scale
0
1'
2'

Horizontal Scale
0 30' 60'

Figure D5
Cross Section D-D'
Reservoir 7 South - North

Former Kast Property Tank Farm
Carson, CA 90744



WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: HLF	Project No: 12-219
Approved By: JVD	Date: 1/6/2014

Legend

- Elevation of Ground Surface
- Elevation of 10-foot Sample

Vertical Scale: 0, 1', 2'

Horizontal Scale: 0, 30', 60'

Figure D6
Cross Section E-E'
Reservoir 6 West - East

Former Kast Property Tank Farm
Carson, CA 90744

WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: HLF	Project No: 12-219
Approved By: JVD	Date: 1/6/2014

Legend

Elevation of Ground Surface

Elevation of 10-foot Sample

Vertical Scale
0
1'
2'

Horizontal Scale
0 30' 60'

Figure D7
Cross Section F-F'
Reservoir 6 South - North

Former Kast Property Tank Farm
Carson, CA 90744

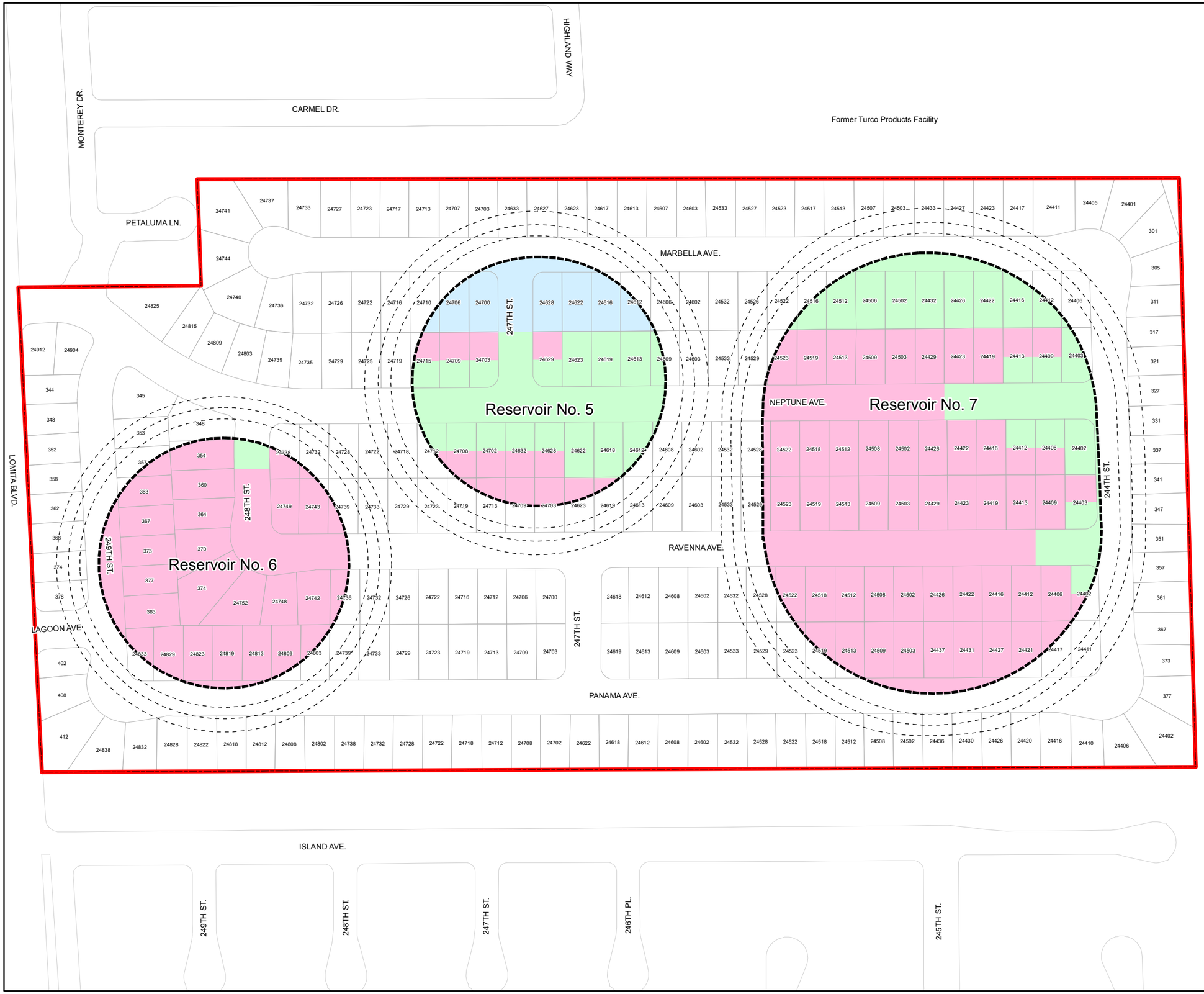


Figure D8
Relative Location of 10 foot Samples to Former Reservoir Floor

Former Kast Property Tank Farm
Carson, CA 90744

Legend

- Project Boundary
- Site Parcels
- Former Reservoir Berm
- Former Reservoir Floor
- 10-ft Sample Locations Above Former Reservoir Floor
- 10-ft Sample Locations Below Former Reservoir Floor
- Reservoir Floor Removed During Development

Note: Floor and Berm locations are based on tract maps and grading plans submitted to LA County by Barclay, 1967-68.

N

0 160 320 Feet

WATERSTONE ENVIRONMENTAL, INC
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA, 92806

Drafted By: MB	Project No: 12-219
Approved By: JVD	Date: 1/14/2014

Waterstone Environmental, Inc.
2936 E. Coronado St.
Anaheim, California 92806

Drawn By: HLF	Project No: 12-219
Approved By: JVD	Date: 1/6/2014

Legend

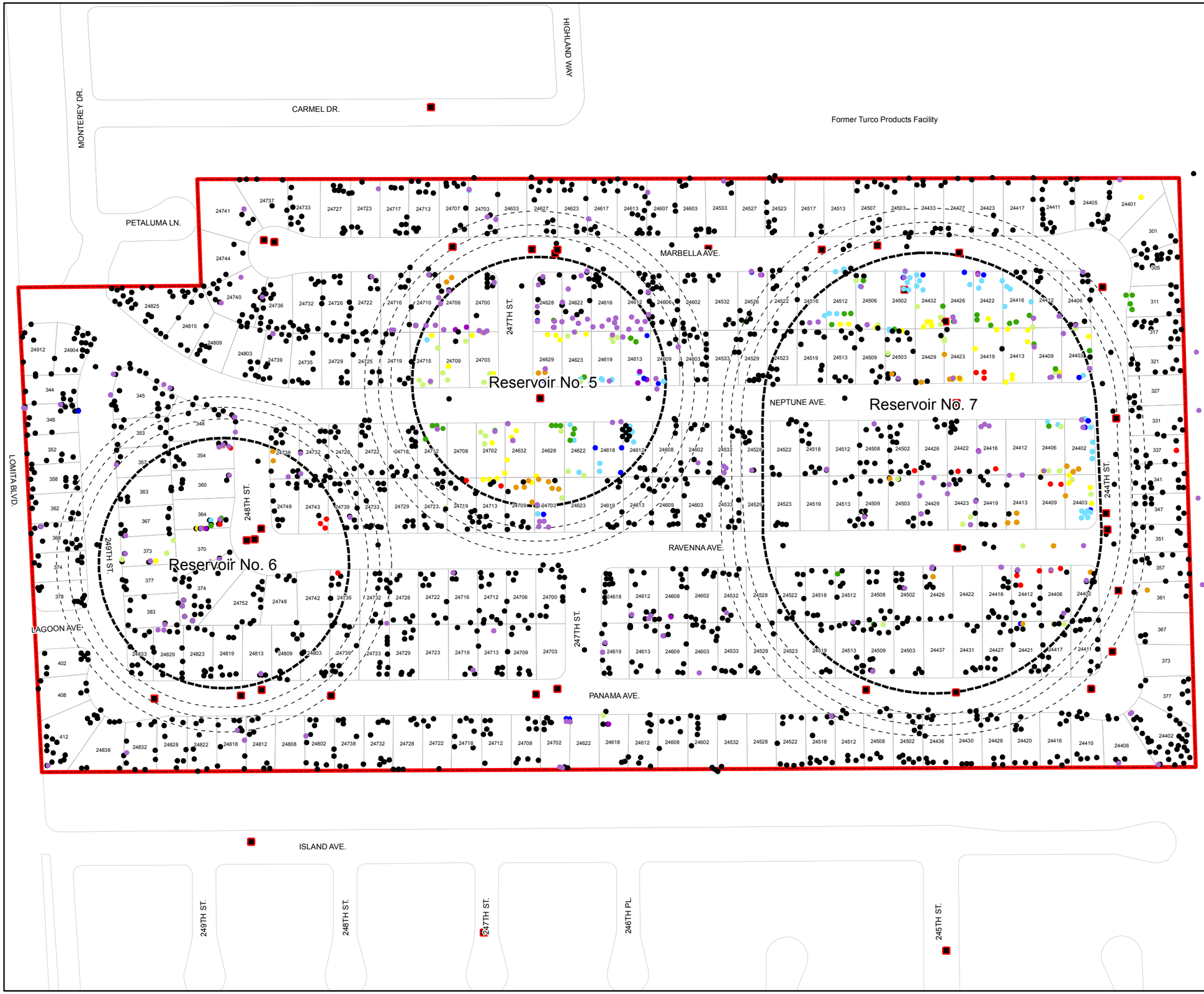
Note: Adapted from URS *Assessment of Environmental Impact and Feasibility of Removal of Residual Concrete Reservoir Slabs* Report, Figure 6, June 2013.

Figure D9
URS Boring Refusal Map

Former Kast Property Tank Farm
Carson, CA 90744

Figure D10
Sample Locations with Maximum Depth Below Ground Surface

Former Kast Property Tank Farm
Carson, CA 90744



Legend

Sample Depth

- Samples Between 0.5 and 5.5 Feet BGS
- 6 Feet BGS
- 6.5 Feet BGS
- 7 Feet BGS
- 7.5 Feet BGS
- 8 Feet BGS
- 8.5 Feet BGS
- 9 Feet BGS
- 9.5 Feet BGS
- 10 to 15 Feet BGS
- Greater than 15 Feet BGS
- Project Boundary
- Site Parcels
- Former Reservoir Berm
- Former Reservoir Floor

Note: Floor and Berm locations are based on tract maps and grading plans submitted to LA County by Barclay, 1967-68.

N

0 160 320 Feet

WATERSTONE ENVIRONMENTAL, INC
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA, 92806

Drafted By: MB	Project No:12-219
Approved By: JVD	Date: 1/20/2014

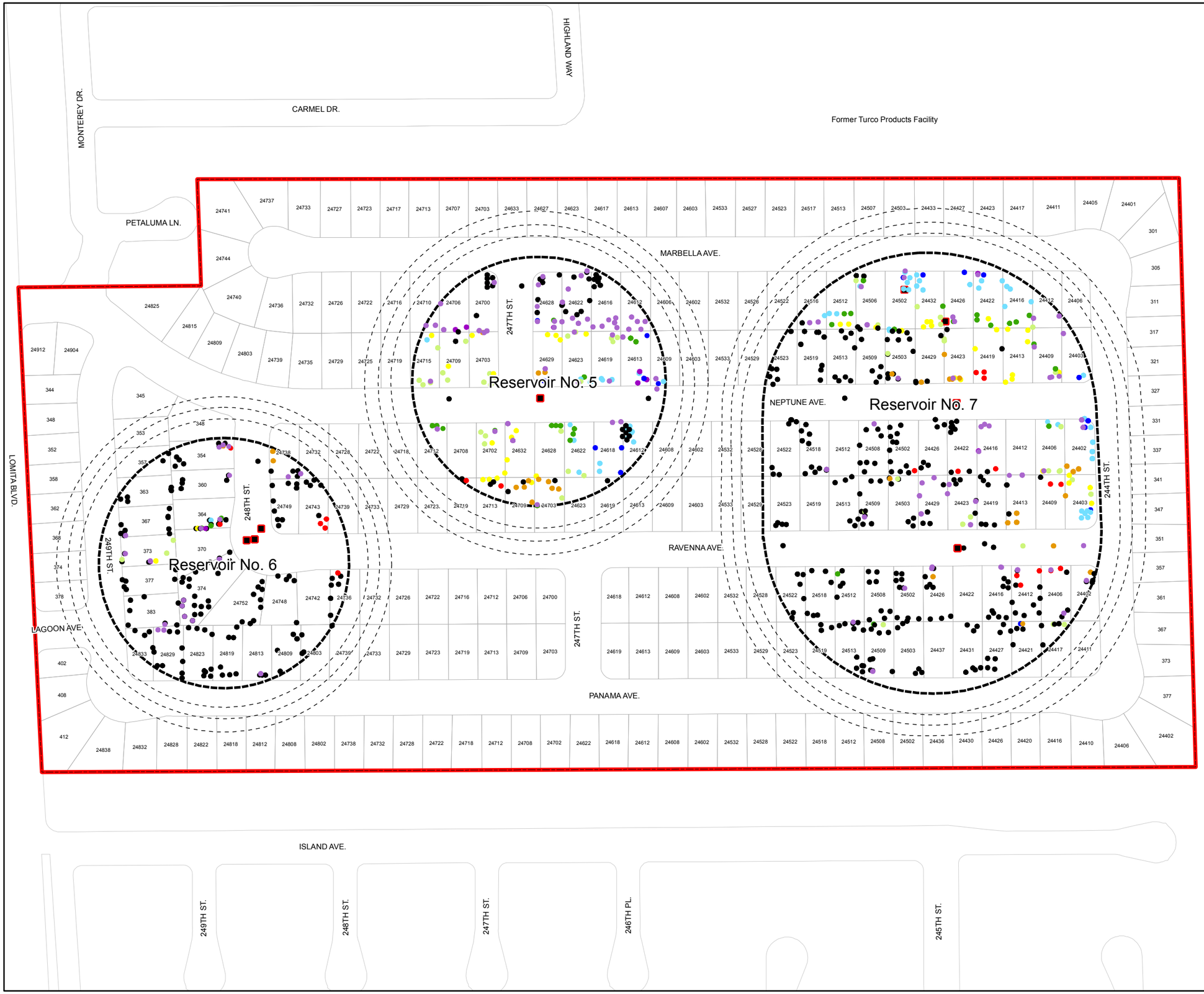


Figure D11
Sample Locations with Maximum Depth Below Ground Surface within Former Reservoir Floor

Former Kast Property Tank Farm
Carson, CA 90744

Legend

Sample Depth

- Samples Between 0.5 and 5.5 Feet BGS
- 6 Feet BGS
- 6.5 Feet BGS
- 7 Feet BGS
- 7.5 Feet BGS
- 8 Feet BGS
- 8.5 Feet BGS
- 9 Feet BGS
- 9.5 Feet BGS
- 10 to 15 Feet BGS
- Greater than 15 Feet BGS
- Project Boundary
- Site Parcels
- Former Reservoir Berm
- Former Reservoir Floor

Note: Floor and Berm locations are based on tract maps and grading plans submitted to LA County by Barclay, 1967-68.

N

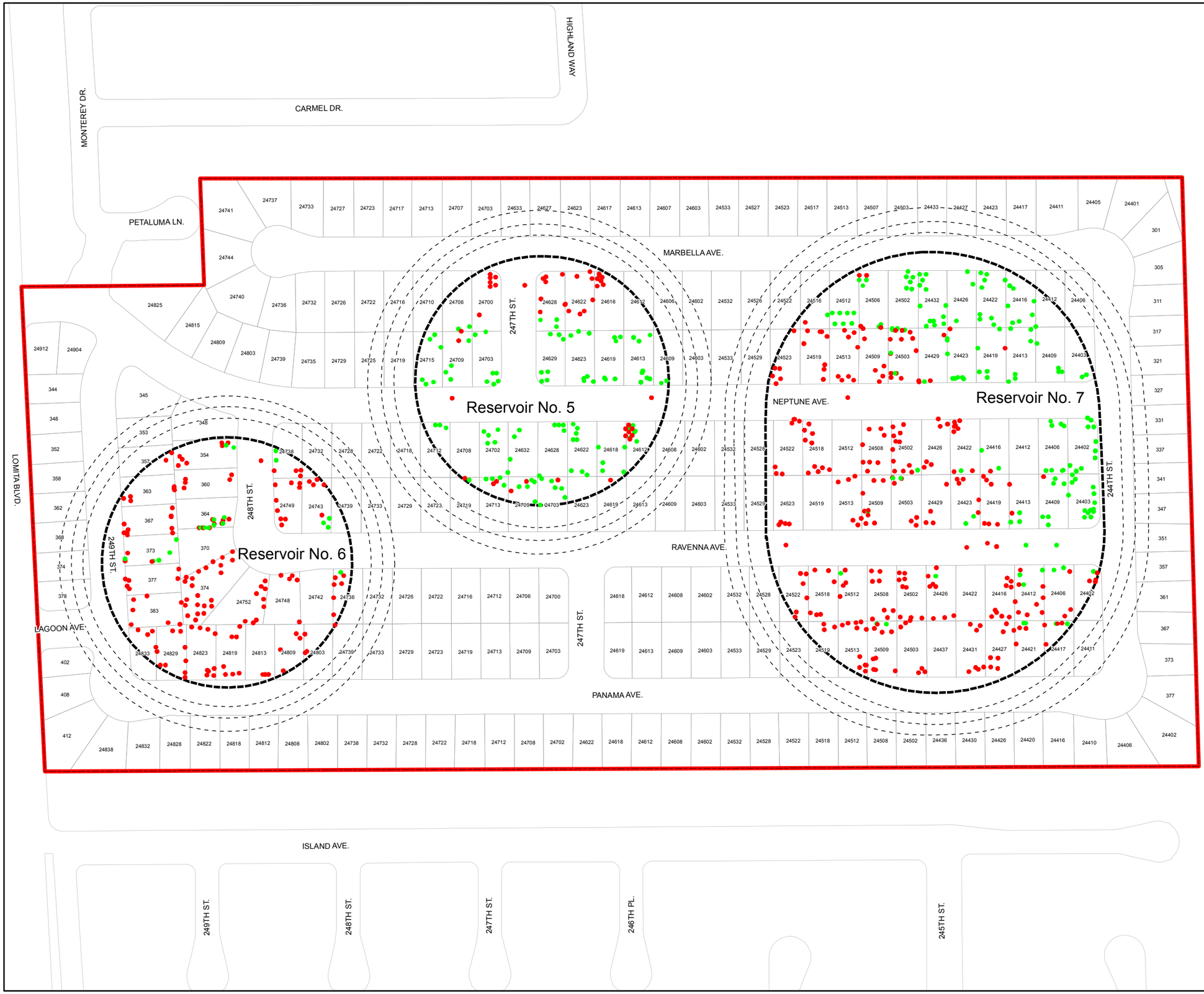
0 160 320 Feet

WATERSTONE ENVIRONMENTAL, INC
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA, 92806

Drafted By: MB	Project No:12-219
Approved By: JVD	Date: 1/20/2014

Figure D12
Sample Locations with Maximum Depth Between 6 and 15 Feet Below Ground Surface within Former Reservoir Floor

Former Kast Property Tank Farm
Carson, CA 90744



Legend

- <10 Feet BGS
- 10+ Feet BGS
- Project Boundary
- Site Parcels
- Former Reservoir Berm
- Former Reservoir Floor

Note: Floor and Berm locations are based on tract maps and grading plans submitted to LA County by Barclay, 1967-68.

N

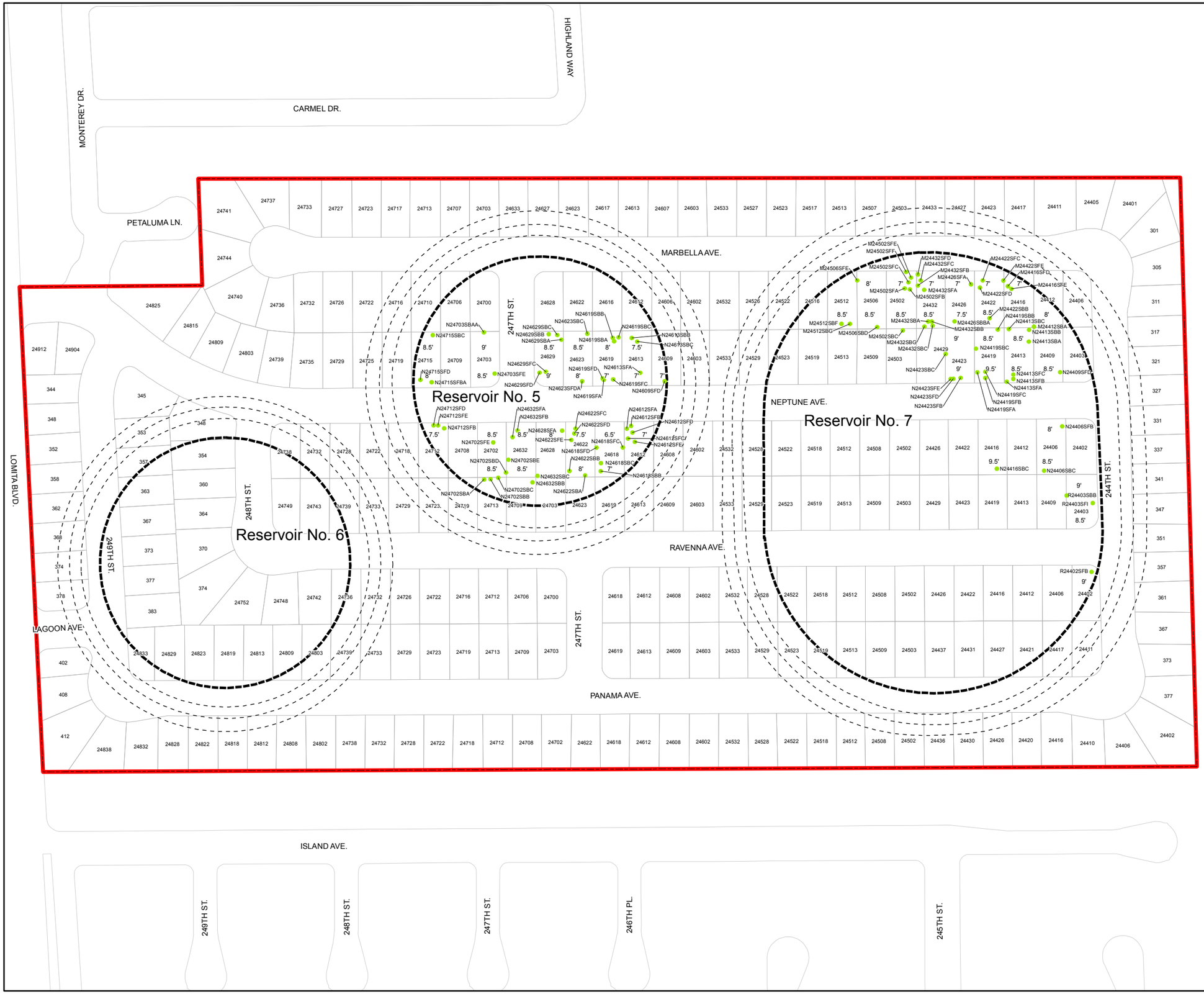
0 160 320 Feet

WATERSTONE ENVIRONMENTAL, INC
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA, 92806

Drafted By: MB	Project No:12-219
Approved By: JVD	Date: 1/17/2014

Figure D13
Sample Locations with Maximum Parcel Refusal Depth

Former Kast Property Tank Farm
Carson, CA 90744



Legend

- Sample Location at Maximum Refusal Depth
- Project Boundary
- Site Parcels
- Former Reservoir Berm
- Former Reservoir Floor

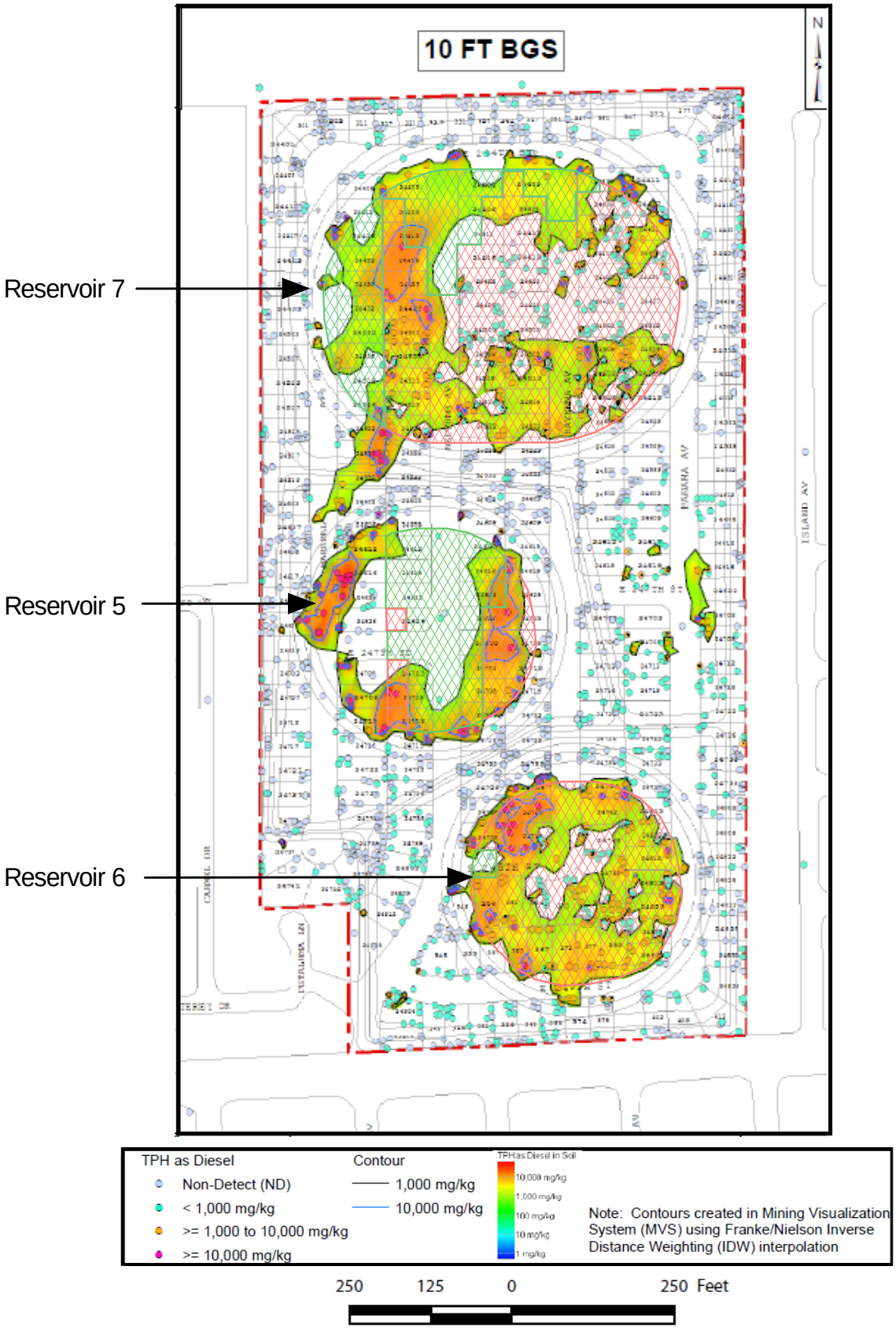
Note: Floor and Berm locations are based on tract maps and grading plans submitted to LA County by Barclay, 1967-68.

N

0 160 320 Feet

WATERSTONE ENVIRONMENTAL, INC
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA, 92806

Drafted By: MB	Project No: 12-219
Approved By: JVD	Date: 1/17/2014



WATERSTONE ENVIRONMENTAL, INC.
2936 E. CORONADO ST.
ANAHEIM, CALIFORNIA 92806

Drawn By: HLF	Project No: 12-219
Approved By: JVD	Date: 1/6/2014

Legend

Reservoir Floor Above 10-feet bgs

Reservoir Floor Below 10-feet bgs

Note: Adapted from Geosyntec Concentration Contour Maps, Figure 7, April 2011.

Figure D14
Evaluation of Geosyntec Sampling Depths and Relationship to Reservoir Floors

Former Kast Property Tank Farm
Carson, CA 90744