

## **APPENDIX F**

# **HAZARDOUS BUILDING MATERIAL SURVEY AND CORROSION STUDY, UPDATES TO THE PHASE I, PHASE I HAZARDOUS MATERIALS ASSESSMENT, & GROUNDWATER SAMPLING MEMORANDUM**

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**HAZARDOUS BUILDING MATERIAL SURVEY AND CORROSION  
STUDY**

**HAZARDOUS BUILDING MATERIAL  
SURVEY AND CORROSION STUDY  
BELMONT PLAZA POOL FACILITY  
REBUILD/REVITALIZATION PROJECT  
4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA 90803**



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July 10, 2014  
Project No. 209120001

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Subject: Hazardous Building Material Survey and Corrosion Study  
Belmont Plaza Pool Facility Rebuild/Revitalization Project  
4000 East Olympic Plaza  
Long Beach, California 90803

Dear Mr. Matzkin:

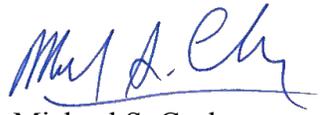
In accordance with your authorization, Ninyo & Moore has performed a Hazardous Building Material Survey and a Corrosion Study at the Belmont Plaza Pool Facility at 4000 East Olympic Plaza in Long Beach, California. The attached report presents our methodology, findings, conclusions, and recommendations regarding our survey.

We appreciate this opportunity to be of service to you on this important project.

Sincerely,  
**NINYO & MOORE**



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## **1. INTRODUCTION**

In accordance with your request and authorization, Ninyo & Moore has performed a hazardous building material survey (HBMS), and a corrosion study at the Belmont Plaza Pool Facility at 4000 East Olympic Plaza in Long Beach, California (site; Figure 1). The corrosion study (including discussion and conclusions) is provided as Appendix A of this report.

The HBMS was performed in support of upcoming demolition activities associated with the revitalization project. Our services included performing an asbestos-containing materials (ACM) survey, a lead-containing surfaces (LCS) survey, and survey of miscellaneous hazardous building materials including potentially polychlorinated biphenyls (PCBs) containing materials and materials listed under the California Department of Toxic Substances Control (DTSC) Universal Waste Rule (UWR). This report has been prepared in accordance with generally accepted environmental science and engineering practices. This report is based upon conditions at the site at the time of the sampling activities and provides documentation of our findings and recommendations.

## **2. PURPOSE AND SCOPE OF SERVICES**

The objective of the HBMS is to provide information about current conditions of the site buildings regarding the potential presence of ACMs, LCSs, and other hazardous building materials. For the purposes of this assessment, LCS refers to both lead-bearing substances (LBS) and lead-based paint (LBP), as defined by the California Department of Public Health (CDPH) and United States Department of Housing and Urban Development (HUD), and other potential lead-containing materials, including, but not limited to, ceramic tile and porcelain bathroom fixtures.

Our scope of services is identified as follows.

- Perform a visual reconnaissance of the interior and exterior areas of the site structures to evaluate the possible presence of ACMs and LCS.
- Collect 127 samples comprising 59 homogeneous building material bulk samples and submittal of these samples to an independent laboratory for analysis of asbestos content. Samples were analyzed via the United States Environmental Protection Agency (EPA)

recommended method of Polarized Light Microscopy (PLM) in accordance with EPA Test Method 600/R-93/116 July 93.

- Collect 688 X-ray fluorescence (XRF) readings of potential LCS (including calibrations).
- Prepare a site plan and figures showing suspect asbestos bulk sample and LCS sample locations.
- Perform a visual assessment and quantification of miscellaneous hazardous building materials including but not limited to wet electrical transformers (possible PCB containing oils), fluorescent light bulbs (possible mercury), fluorescent light ballasts (possible PCB-containing oils), high intensity light bulbs (possible mercury), thermostat switches (possible liquid mercury and/or batteries), emergency lighting and exit signs (possible lead acid or other metal containing batteries or tritium), heating, ventilation, and air conditioning (HVAC) and refrigeration systems (possible chlorofluorocarbon [CFC] gas), and other possible hazardous materials.
- Performed a limited asbestos and lead paint survey for the Beach Maintenance Building.
- Prepare this HBMS report which summarized our field activities, presents our survey data, and summarizes descriptions and estimated quantities of assessed materials. This report includes sample location maps, a site description of the structures, a summary of our field activities, laboratory testing information, general photographic documentation, conclusions and recommendations.
- Perform a corrosion study (Appendix A) to evaluate the site soil conditions with respect to corrosivity.

### **3. SITE DESCRIPTION**

The Belmont Plaza Pool Facility is at 4000 East Olympic Plaza in Long Beach, California. The site includes a main building, old swimming pool area, and a new swimming pool area. Only the structures within the main building and old swimming pool area are planned for demolition. The main building visually appears to be one building but it was observed that there are three separate buildings which have been connected to each other by either constructed interior walkways or previous renovations. The buildings include: Locker Room and Office Building; Main Pool Building; and Restaurant Buildings. The old swimming pool area includes a chemical building; storage building; and two swimming pools. The buildings were reported to be constructed in approximately 1968. A site plan of the facility structures is presented as Figure 2. General descriptions of the site structures planned for demolition are described below.

### **Locker Room and Office Building**

The building is an approximate 10,500-square-foot, single-story structure. It is used as a men's and women's locker room and miscellaneous office locations. The concrete flooring substrate is finished with ceramic tiles or carpeting. Interior walls are either plaster, button-board (drywall & plaster), or concrete. Interior ceilings are plaster and are either unfinished or have acoustic ceiling tiles. The exterior walls are concrete or metal. The roof area is comprised of asphalt shingles, insulation, and is encapsulated with a rubber membrane.

### **Main Pool Building**

The building is an approximate 40,000-square-foot, single-story structure with a basement. It was used as the main interior swimming pool location, and (the basement areas) include storage and mechanical rooms associated with the pool maintenance operations. The concrete flooring substrate is unfinished. Interior walls are either plaster or concrete. Interior ceilings are plaster or concrete, and are finished with acoustic ceiling tiles in most areas. The exterior walls are concrete or metal. The roof area is comprised of asphalt shingles, insulation, and is encapsulated with a rubber membrane.

### **Restaurant Building**

The building is an approximate 15,000-square-foot, two-story structure. The first floor includes a kitchen, dining area, and restrooms. The second floor includes a kitchen, banquet dining and bar locations, and restrooms. The concrete flooring substrate is finished with wood, carpeting, or vinyl floor tiles. Interior walls are either plaster or drywall. Interior ceilings are plaster and are finished with acoustic ceiling tiles in some areas. The exterior walls are concrete or metal. The roof area is comprised of asphalt shingles, insulation, and is encapsulated with a rubber membrane.

### **Old Pool Area (Chemical and Storage Buildings, Swimming Pools)**

The exterior pool location contains two swimming pools (1,250- and 3,300-square-foot), and two structures (Storage Building, and Chemical Building). The Storage Building is an approximate 135-square-foot wood framed structure. The storage room interior walls and ceilings are finished with plaster. The flooring area is exposed concrete. The roofing area is covered with asphalt

sheeting. The Chemical Building is an approximate 360-square-foot wood framed structure. The storage room interior walls and ceilings are either finished with plaster or drywall. The flooring area is either exposed concrete or finished with vinyl floor tiles. The roofing area is covered with asphalt sheeting.

#### **4. FIELD LIMITATIONS**

The two swimming pools at the Old Pool Area, were filled with water at the time of the inspection. The interior of the filter tanks in the Main Pool Building were inaccessible.

Since non-destructive sampling techniques were used, there is a possibility that additional ACMs and LCS may be encountered in inaccessible areas (e.g., interstitial wall and ceiling spaces as well as roof areas) during building demolition activities.

#### **5. SAMPLE COLLECTION**

The surveys followed EPA and HUD guidelines, within the limits of the project scope of work. The asbestos survey was conducted and performed by a California Department of Occupational Safety and Health-Certified Asbestos Consultant, which consisted of visually locating suspected ACMs, inventorying and quantifying homogenous sampling areas, and collecting suspect building materials from the homogeneous sampling areas. The LCS survey was performed by a CDPH Lead Sampling Technician under the supervision of a CDPH Lead-Related Construction Inspector/Assessor. The surveys were performed on March 31, and April 1 of 2014. Inspector certification documentation is presented in Appendix B.

##### **5.1. Asbestos Survey**

A preliminary visual assessment and bulk-sampling survey of suspect ACMs within the designated interior structures and exterior roofing areas was performed. Representative samples of the suspect ACMs were collected after identification of homogeneous sampling areas (areas in which the materials are uniform in color, texture, construction or application date, and general appearance). Each homogeneous area was observed for material type, location, condition, and friability. Representative samples were collected from each homogeneous area except areas that were inaccessible or areas of assumed ACM, within the

limits of the project scope of work. Samples were collected using EPA-recommended sampling procedures.

A total of 137 samples comprising 59 homogeneous building materials of suspect ACMs were collected and transferred to LA Testing for asbestos analysis. LA Testing is an accredited laboratory in the National Voluntary Laboratory Accreditation Program for bulk asbestos fiber analysis. Samples were analyzed with a *First Positive Stop* criteria per homogeneous group of building material within a sampling area. The samples were analyzed using PLM with dispersion staining for the presence and quantification of asbestos fibers, in general accordance with EPA method 600/R-93/116 July 93. The lower limit of reliable detection for asbestos using the PLM method is approximately one (1) percent by volume. California regulations define asbestos containing construction materials (ACCMs) as those materials having asbestos content of greater than one tenth of 0.1 percent. Materials in which no asbestos was detected are defined in the laboratory report as “None detected.” Materials containing asbestos, but in amounts less than 1 percent, are defined as containing “trace” amounts and for the purpose of this report are assumed to be ACCM.

Building materials which were sampled and analyzed for the presence of asbestos are presented in Table 1. The locations of suspect bulk asbestos samples are presented in Figures 3 through 10. Copies of the laboratory analytical reports and chain-of-custody records are presented in Appendix C. General photographic documentation of the ACMs and Assumed ACMs found during this survey is provided in Appendix D.

## **5.2. LCS Survey**

The CDPH stipulates that paint or other surface coatings containing an amount equal to or in excess of one milligram per square centimeter ( $1.0 \text{ mg/cm}^2$ ), or more than one-half of one percent (0.5 percent) by weight, constitute a LBP. The HUD guideline for designating a painted surface as lead-containing is consistent with the CDPH. In the County of Los Angeles, Title 11 Health and Safety Chapter 11.28 “Lead Hazards” stipulate that materials containing lead or its compounds in excess of  $0.7 \text{ mg/cm}^2$ , constitutes a LBS. For the purpose of this survey a LBS is also considered a LCS. In addition, under California

Occupational Safety and Health Administration Construction Safety Orders, Lead Title 8, Section 1532.1 CA, “Lead In Construction Standard,” specific worker protection measures are required in construction projects where lead is present. The standard covers construction work where employees may be exposed to lead during such activities as demolition, removal, surface preparation for repainting, renovation, clean-up, and routine maintenance.

Lead testing was conducted using a portable NITON XLP 300A XRF spectrum analyzer in accordance with accepted environmental science and engineering practices for renovation projects. The testing methodology used is presented in Appendix E. A total of 688 XRF readings (including calibrations) were collected from the representative testing combinations (e.g., unique combination of room equivalent, building component, and substrate) within the five structures designated for demolition. Components that were tested for the presence of lead are presented in the attached Table 2. The XRF testing orientation (A, B, C, and D wall orientations) used and surfaces found to be LCS are depicted on the Figures 3 through 10. General photographic documentation of the LCSs and Assumed LCSs found during this survey is provided in Appendix D.

### **5.3. Miscellaneous Hazardous Building Materials Survey**

Ninyo & Moore conducted a visual survey and inventory of miscellaneous hazardous building materials. Materials of potential concern including but not limited to wet electrical transformers (possible PCB-containing oils), fluorescent light bulbs (possible mercury), fluorescent light ballasts (possible PCB-containing oils), high intensity light bulbs (possible mercury), thermostat switches (possible liquid mercury and/or batteries), emergency lighting and exit signs (possible lead acid or other metal containing batteries or tritium), HVAC and refrigeration systems (possible CFC gas). In accordance with the scope of work, positive identification of the suspect miscellaneous hazardous materials, via analytical testing, was not performed.

## **6. SURVEY RESULTS**

The following sections present the survey results.

## **6.1. Asbestos**

Based on observations and the analytical results of bulk samples collected during this survey, ACMs, and Assumed ACMs identified at the site as part of the scope of work are generally described in the following sections for each building within the site. Asbestos analytical results are summarized in the attached Table 1. Suspect asbestos bulk sample locations are shown in Figures 3 through 10. A limited asbestos survey was performed separately for the Beach Maintenance Building, and the results are summarized in Appendix G.

### **6.1.1. Restaurant Building**

Approximately 21 cloth wrapped thermal system insulation elbows from 3- and 4-inch piping within the ceiling plenum areas of the first floor women's restroom and mechanical rooms are ACM. Approximately 8,000 square feet (SF) of 12- by 12-inch white floor tile with black streaks which is exposed and beneath the carpeting throughout the second floor hallway, foyer, and janitor closet is ACM. Approximately 60 SF of roofing penetration mastic at the vents throughout the roof is ACM. Approximately 25 SF of beige caulking at the roof vents is ACM. The vibration damper in the mechanical room is assumed to be ACM. The ACM and Assumed ACMs were noted to be in a good condition.

### **6.1.2. Main Pool Building**

Approximately 18 cloth wrapped thermal system insulation elbows from 6-inch piping in the basement storage room and filter tank rooms are ACM. Approximately 150 SF of roofing penetration mastic at the hatches and skylight are ACM. Approximately 70 SF of the beige and gray caulking at the roof skylights are ACM. The ACMs were noted to be in a good condition. Approximately 100 assumed gaskets are present in the filter tank room and basement locations.

### **6.1.3. Locker Room and Offices Building**

Approximately 12 cloth wrapped thermal system insulation elbows from the 2- and 3-inch piping in the men's and women's locker rooms are ACM. Approximately 10 SF

of white caulking at the east walkway is ACM. Approximately 20 SF of roofing penetration mastic at the vents is ACM. Approximately 30 SF of beige caulking at the roof vents is ACM.

#### **6.1.4. Old Pool Area (Chemical and Storage Buildings)**

**Chemical building** – Approximately 2 SF of mastic at the vent pipe on the roof is ACM. Approximately 5 SF of gray caulking along the north edge of the roofing area is ACM. Approximately 5 cloth wrapped thermal system insulation elbows from the 2-inch piping is ACM.

**Old Pool Storage building** – Approximately 5 SF of mastic at the edges of the roofing area is ACM.

**Please note that quantities of ACMs and Assumed ACMs, are approximate. It is the abatement contractor's responsibility to confirm quantities prior to bidding and removal activities.**

The presence of ACMs, and Assumed ACMs, in a building does not necessarily mean that the health of the occupants is endangered. If these materials are in good condition and have not been disturbed or deteriorated, exposures are expected to be negligible. However, when ACM deteriorates, is disturbed, or is in damaged condition, such as during renovation or demolition operations, asbestos fibers may be released creating a potential health hazard for building occupants, maintenance personnel, and contractors.

#### **6.2. Lead-Containing Surfaces**

The LCS detection limit used for the survey was  $0.7 \text{ mg/cm}^2$ . XRF analytical results are presented in Table 2. The CDPH Form 8552 is presented in Appendix F. A limited lead paint survey was performed for the BMB and the results are summarized in Appendix G. Based on the analytical results of XRF analysis during our survey, LCSs which will either require removal or paint film stabilization within the scope of work are generally summarized below for each building location within the site:

### **6.2.1. Restaurant Building**

Approximately 25 SF of paint in fair condition was found at the roofing area parapet walls. Approximately 260 SF of beige ceramic wall tiles in the second floor men's restroom is LCS. Approximately 115 SF of white ceramic wall tiles in the second floor kitchen is LCS. Approximately 260 SF of white ceramic wall tiles in the second floor women's restroom is LCS.

### **6.2.2. Main Pool Building**

Approximately 18,725 SF of intact LCS was found on the various white, blue, and light green ceramic tiles within the flooring and wall areas of the swimming pool. Approximately 50 SF of paint in fair condition was found at the roofing area parapet walls. Approximately 1,000 linear feet of metal overhead plumbing pipes in the basement pool equipment storage, basement hallway, and basement filter tank rooms contain LCS in a poor to intact condition.

### **6.2.3. Locker Room and Offices Building**

Approximately 25 SF of paint in fair condition was found at the roofing area parapet walls. Approximately 10,070 SF of intact LCS was found on various white, brown, yellow, tan/white, cream, and gray ceramic wall tiles within the men's and women's locker rooms, men's and women's executive locker rooms, and men's and women's employee locker rooms.

### **6.2.4. Old Pool Area (Chemical and Storage Buildings)**

Two swimming pools are present in this location. Ceramic tiles are present at both pool wall areas. The concrete wall and flooring area of the pools is also painted. At the time of the inspection, the pools were filled with water. XRF sampling was not performed, therefore, the ceramic tiles at both swimming pool walls are assumed to be lead containing.

**Please note that quantities of LCS are approximate. It is the abatement contractor's responsibility to confirm quantities prior to bidding and removal activities.**

### **6.3. Miscellaneous Hazardous Building Materials**

Miscellaneous potential hazardous building materials observed within the scope of work areas included fluorescent light bulbs, light ballasts, air conditioning units, mercury-containing thermostat switches, and various swimming pool chemicals. An inventory of miscellaneous building materials is included in Table 3.

Fluorescent light bulbs are classified as light tubes under the DTSC UWR materials (i.e., containing mercury gases). Light ballasts manufactured until the late 1970s commonly contained PCBs. Possible freon or CFC gases are suspected in refrigeration units and the air conditioning units.

## **7. RECOMMENDATIONS**

Since ACMs, Assumed ACMs, LCSs, Assumed LCSs, and hazardous materials were identified at the site, the following recommendations are provided:

- The identified ACMs and LCSs should not be disturbed. Prior to demolition activities which would disturb identified ACMs, Assumed ACMs, and LCSs (ceramic tiles, and loose and flaking paint), and Assumed LCSs a licensed abatement removal contractor should remove the ACMs and LCS, and perform paint stabilization activities as needed. The licensed abatement contractor must maintain current licenses as required by applicable state or local jurisdictions for the removal, transporting, disposal, or other regulated activities.
- Applicable laws and regulations should be followed, including those provisions requiring notification to regulatory agencies, building occupants, renovation contractors, and workers of the presence of asbestos and LCSs.
- Abatement activities will be performed in accordance with the abatement specifications prepared by Ninyo & Moore.
- The identified LCSs should not be disturbed. Any painted LCSs in a non-intact condition should be abated or the component properly removed or encapsulated. Lead containing ceramic tiles should be removed prior to demolition activities. Any lead related removal activities should be performed in accordance with the OSHA Lead in Construction Standard, Title 8 California Code of Regulations (CCR) 1532.1.

- After the water is drained from the two swimming pools within the Old Pool Area, the ceramic wall tiles should be tested for lead content.
- Interior areas of the water filter tanks should be analyzed for lead content upon access.
- Proper LCS waste stream categorization is required. Prior to any demolition activities, a composite sample of the representative LCS material (ceramic tiles and loose and flaking paint) should be analyzed for total lead for comparison with the Total Threshold Limit Concentration in accordance with EPA reference method SW-846. If the concentration of total lead is greater than or equal to 1,000 milligrams per kilogram (mg/kg), the LCS waste material must be disposed at a landfill which can receive such wastes. If the concentration is less than 50 mg/kg the sample may be disposed as construction debris, if it is to remain in California. If the total lead result is greater than or equal to 50 mg/kg and less than 1,000 mg/kg, the sample must be further analyzed for soluble lead by the Waste Extraction Test for comparison with the Soluble Threshold Limit Concentration (STLC) as described in Title 22 CCR 66261.24a. Additionally, if the result is greater than or equal to 100 mg/kg the sample must be further analyzed for leachable lead by the Toxicity Characteristic Leaching Procedure (TCLP) for comparison with the Resource Conservation and Recovery Act (RCRA) limits. Based on the results of the soluble and leachable analysis the waste material may require disposal as a RCRA-Hazardous waste or non-RCRA- (California-) Hazardous waste.
- Miscellaneous hazardous building materials discussed in this report (Table 3), should be removed and properly recycled or disposed by the licensed abatement contractor prior to demolition activities. Contractor should provide proper manifesting for all hazardous materials removed and recycled to prove the disposal of all materials was completed in accordance with local including the Fire Department, state, and federal requirements.
- Abatement monitoring consulting services should be performed by a third party environmental consultant, to include oversight of abatement contractor activities to be performed in accordance with the abatement specifications, daily air monitoring, clearances (asbestos and lead), verification of complete removal of hazardous materials, and preparation of a closeout report summarizing the abatement activities.

## 8. LIMITATIONS

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited sampling and chemical analysis. Further assessment of potential adverse environmental impacts may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated. However, if additional suspect ACMs or LCSs are

encountered during renovation/demolition activities, these materials should be sampled by a qualified person, and analyzed for content prior to further disturbance. In addition, please note that quantities of ACMs and LCSs are approximate. These numbers should be confirmed prior to removal or repair activities.

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site can change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

**Table 1 – Asbestos Survey Results**

| Sample ID No.                              | Sample Location                           | HA No.    | Sampled Material                         | Result                        | Approximate Quantity (SF/LF) |
|--|---|-----------|--|-------------------------------|------------------------------|
| <b>Locker Rooms &amp; Offices Building</b> |   |           |  |                               |                              |
| 1  | Women's locker room – south wall          | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 | NA                           |
| 2  | Executive women's locker room – east wall | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 3  | Northeast office – west wall              | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 4  | electrical room – north wall              | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 5  | Hallway – north wall                      | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 6  | Men's locker room – north wall            | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 7  | Executive men's locker room – east wall   | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 8  | Women's locker room – south wall          | 2         | Button board                             | None detected                 | NA                           |
| 9  | Water tank in electrical room             | 3         | Cloth-wrapped fiberglass insulation      | None detected                 | NA                           |
| 10   | Water tank in electrical room             | 3         | Cloth-wrapped fiberglass insulation      | None detected                 |                              |
| 11   | Water tank in electrical room             | 3         | Cloth-wrapped fiberglass insulation      | None detected                 |                              |
| 12   | <b>Women's locker room – 2" elbow</b>     | <b>4</b>  | <b>Cloth-wrapped elbow insulation</b>    | <b>5% chrysotile asbestos</b> | <b>12 Each ACM</b>           |
| 13   | <b>Men's locker room – 3" elbow</b>       | <b>4</b>  | <b>Cloth-wrapped elbow insulation</b>    | <b>NA</b>                     |                              |
| 14   | Women's locker room – 2" pipe             | 5         | Cloth-wrapped pipe insulation            | None detected                 | NA                           |
| 15   | Men's locker room – 3" pipe               | 6         | White/silver paper pipe insulation       | None detected                 | NA                           |
| 16   | Entry lobby                               | 7         | 1'x1' Acoustic ceiling tile              | None detected                 | NA                           |
| 17   | Entry lobby                               | 8         | Carpet glue                              | None detected                 | NA                           |
| 18   | Weight room                               | 9         | Black vinyl cove base & glue             | None detected                 | NA                           |
| 19   | Electrical room                           | 10        | Brittle black cove base & glue           | None detected                 | NA                           |
| 20   | Exterior east entry plaza                 | 11        | Gray sidewalk caulk                      | None detected                 | NA                           |
| 21   | Exterior southwest corner                 | 12        | Stone & concrete panels                  | None detected                 | NA                           |
| 22   | Exterior southeast corner                 | 12        | Stone & concrete panels                  | None detected                 |                              |
| 23   | Exterior northwest corner                 | 12        | Stone & concrete panels                  | None detected                 |                              |
| 101  | North                                     | 42        | Roof core                                | None detected                 | NA                           |
| 102  | West                                      | 42        | Roof core                                | None detected                 |                              |
| 103  | South                                     | 42        | Roof core                                | None detected                 |                              |
| 104  | <b>West vent</b>                          | <b>37</b> | <b>Beige caulking</b>                    | <b>5% chrysotile asbestos</b> | <b>30 SF ACM</b>             |
| 105  | <b>South vent</b>                         | <b>43</b> | <b>Penetration mastic</b>                | <b>5% chrysotile asbestos</b> | <b>20 SF ACM</b>             |
| 106  | <b>Center sleeper</b>                     | <b>43</b> | <b>Penetration mastic</b>                | <b>NA</b>                     |                              |
| 107  | <b>Center pitch pocket</b>                | <b>43</b> | <b>Penetration mastic</b>                | <b>NA</b>                     |                              |
| 108  | <b>East walkway</b>                       | <b>44</b> | <b>White caulking</b>                    | <b>4% chrysotile asbestos</b> | <b>10 SF ACM</b>             |

**Table 1 – Asbestos Survey Results**

| Sample ID No.             | Sample Location   | HA No. | Sampled Material                         | Result        | Approximate Quantity (SF/LF) |
|---------------------------|---|--------|--|---------------|------------------------------|
| <b>Main Pool Building</b> |   |        |  |               |                              |
| 24                        | Diving Platform   | 13     | Diving mat & glue                        | None detected | NA                           |
| 25                        | Above Diving Platform (ceiling area)                                  | 14     | 2'x2' Acoustic ceiling panels            | None detected | NA                           |
| 26                        | South wall  | 15     | 2'x2' Acoustic wall panels               | None detected | NA                           |
| 27                        | East walkway  | 16     | Walkway caulk                            | None detected | NA                           |
| 28                        | West Pool window  | 17     | Window caulk                             | None detected | NA                           |
| 29                        | Expansion joints between pool building & restaurant building – north  | 18     | Black tar                                | None detected | NA                           |
| 30                        | Expansion joints between pool building & restaurant building – center | 18     | Black tar                                | None detected |                              |
| 31                        | Expansion joints between pool building & restaurant building – south  | 18     | Black tar                                | None detected |                              |
| 32                        | North storage   | 1      | Wall & ceiling plaster (coarse & smooth) | None detected | NA                           |
| 33                        | South stairwell – up  | 1      | Wall & ceiling plaster (coarse & smooth) | None detected |                              |
| 34                        | South stairwell – down  | 1      | Wall & ceiling plaster (coarse & smooth) | None detected |                              |
| 35                        | Basement hall – south   | 1      | Wall & ceiling plaster (coarse & smooth) | None detected |                              |
| 36                        | Basement hall – north   | 1      | Wall & ceiling plaster (coarse & smooth) | None detected |                              |
| 37                        | South stairwell   | 19     | Black brittle cove base & glue           | None detected | NA                           |
| 38                        | Basement storage  | 20     | Gray brittle cove & glue                 | None detected | NA                           |
| 39                        | Filter tank room  | 21     | Green gasket                             | None detected | NA                           |
| 40                        | Basement storage 6" elbow   | 4      | Cloth-wrapped elbow insulation           | NA            | 18 Each ACM                  |
| 41                        | Northeast Filter tank room 6" elbow                                   | 4      | Cloth-wrapped elbow insulation           | NA            |                              |
| 42                        | Northwest Filter tank room 6" elbow                                   | 4      | Cloth-wrapped elbow insulation           | NA            |                              |
| 43                        | Basement Storage 6" pipe  | 5      | Cloth-wrapped pipe insulation            | None detected | NA                           |
| 44                        | Northeast filter tank room 6" pipe                                    | 5      | Cloth-wrapped pipe insulation            | None detected |                              |
| 45                        | Northwest filter tank room 6" pipe                                    | 5      | Cloth-wrapped pipe insulation            | None detected |                              |
| 46                        | Northeast filter tank pipe ends                                       | 22     | Tan bridging encapsulant                 | None detected | NA                           |
| 47                        | Northeast filter tank pipe ends                                       | 22     | Tan bridging encapsulant                 | None detected |                              |
| 48                        | Northeast filter tank pipe ends                                       | 22     | Tan bridging encapsulant                 | None detected |                              |
| 49                        | Heater room 2" pipe   | 6      | White/silver paper pipe insulation       | None detected | NA                           |

**Table 1 – Asbestos Survey Results**

| Sample ID No.              | Sample Location   | HA No.    | Sampled Material                         | Result                        | Approximate Quantity (SF/LF) |
|----------------------------|---|-----------|--|-------------------------------|------------------------------|
| 50                         | Heater room pipe ends                                       | 23        | White bridging encapsulant               | None detected                 | NA                           |
| 51                         | Heater room pipe ends                                       | 23        | White bridging encapsulant               | None detected                 |                              |
| 52                         | Heater room pipe ends                                       | 23        | White bridging encapsulant               | None detected                 |                              |
| 92                         | West  | 39        | Roof core                                | None detected                 | NA                           |
| 93                         | Center  | 39        | Roof core                                | None detected                 |                              |
| 94                         | Northeast   | 39        | Roof core                                | None detected                 |                              |
| 95                         | Southeast patch   | 40        | Roof patch core                          | None detected                 | NA                           |
| 96                         | <b>North pitch pocket</b>                                   | <b>41</b> | <b>Penetration mastic</b>                | <b>None detected</b>          | <b>150 SF ACM</b>            |
| 97                         | <b>Center hatch</b>   | <b>41</b> | <b>Penetration mastic</b>                | <b>None detected</b>          |                              |
| 98                         | <b>South skylight</b>                                       | <b>41</b> | <b>Penetration mastic</b>                | <b>5% chrysotile asbestos</b> |                              |
| 99                         | <b>East skylight</b>  | <b>37</b> | <b>Beige caulking</b>                    | <b>5% chrysotile asbestos</b> | <b>20 SF ACM</b>             |
| 100                        | <b>Center skylight</b>                                      | <b>38</b> | <b>Gray caulking</b>                     | <b>7% chrysotile asbestos</b> | <b>50 SF ACM</b>             |
| NS                         | <b>Filter tank room</b>                                     | <b>60</b> | <b>Gaskets (various)</b>                 | <b>ASSUMED</b>                | <b>100 Each</b>              |
| <b>Restaurant Building</b> |   |           |  |                               |                              |
| 53                         | Kitchen north   | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 | NA                           |
| 54                         | Kitchen southeast   | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 55                         | Kitchen south   | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 56                         | 2 <sup>nd</sup> Floor roof access                           | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 57                         | 2 <sup>nd</sup> Floor center                                | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 58                         | 2 <sup>nd</sup> Floor janitor closet                        | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 59                         | 2 <sup>nd</sup> Floor employee restroom                     | 1         | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 60                         | 2 <sup>nd</sup> Floor janitor closet                        | 2         | Button board                             | None detected                 | NA                           |
| 61                         | Dance floor ceiling beam                                    | 24        | Drywall with joint compound              | None detected                 | NA                           |
| 62                         | Southwest wall  | 24        | Drywall with joint compound              | None detected                 |                              |
| 63                         | Northwest wall  | 24        | Drywall with joint compound              | None detected                 |                              |
| 64                         | Kitchen   | 25        | 2'x4' Acoustic ceiling panel (drywall)   | None detected                 | NA                           |
| 65                         | Kitchen north   | 26        | Green flooring resin                     | None detected                 | NA                           |
| 66                         | Kitchen center  | 26        | Green flooring resin                     | None detected                 |                              |
| 67                         | Kitchen south side  | 26        | Green flooring resin                     | None detected                 |                              |
| 68                         | West exterior north wall                                    | 27        | Exterior pink wall plaster               | None detected                 | NA                           |
| 69                         | West exterior wall center                                   | 27        | Exterior pink wall plaster               | None detected                 |                              |
| 70                         | West exterior wall south                                    | 27        | Exterior pink wall plaster               | None detected                 |                              |
| 71                         | <b>1<sup>st</sup> Floor above women's restroom 3" elbow</b> | <b>4</b>  | <b>Cloth-wrapped elbow insulation</b>    | <b>5% chrysotile</b>          | <b>15 Each ACM</b>           |

**Table 1 – Asbestos Survey Results**

| Sample ID No.                     | Sample Location                                      | HA No. | Sampled Material                                    | Result   | Approximate Quantity (SF/LF) |
|-----------------------------------|--|--------|---|--|------------------------------|
| 72                                | 1 <sup>st</sup> Floor mechanical room 4" elbow       | 4      | Cloth-wrapped elbow insulation                      | NA   |                              |
| 73                                | 1 <sup>st</sup> Floor mechanical room 4" end         | 28     | Cloth-wrapped pipe end insulation                   | 5% chrysotile  | 6 Each ACM                   |
| 74                                | 1 <sup>st</sup> Floor above women's restroom 2" pipe | 5      | Cloth-wrapped pipe insulation                       | None detected  | NA                           |
| 75                                | 1 <sup>st</sup> Floor above women's restroom 4" pipe | 29     | Cloth/silver paper pipe insulation                  | None detected  | NA                           |
| 76                                | 1 <sup>st</sup> Floor mechanical room 4" pipe        | 29     | Cloth/silver Paper pipe insulation                  | None detected  |                              |
| 77                                | 1 <sup>st</sup> Floor mechanical room 2" pipe        | 30     | Painted cloth wrap pipe insulation                  | None detected  | NA                           |
| 78                                | 2 <sup>nd</sup> Floor above kitchen                  | 31     | Cloth AC duct tape                                  | None detected  | NA                           |
| 79                                | 2 <sup>nd</sup> Floor kitchen northwest              | 32     | 1'x1' Acoustic ceiling tile w/holes                 | None detected  | NA                           |
| 80                                | 2 <sup>nd</sup> Floor north office                   | 33     | 1'x1' Acoustic ceiling tile w/crevices              | None detected  | NA                           |
| 81                                | 2 <sup>nd</sup> Floor women's foyer                  | 34     | 12" Floor tile white w/black streaks & black mastic | Floor tile – 3% chrysotile asbestos<br>Mastic – 6% chrysotile asbestos | 8,000 SF ACM                 |
| 82                                | 2 <sup>nd</sup> Floor northwest hall                 | 34     | 12" Floor tile white w/black streaks & black mastic | NA   |                              |
| 83                                | 2 <sup>nd</sup> Floor janitor closet                 | 34     | 12" Floor tile white w/black streaks & black mastic | NA   |                              |
| 84                                | Northwest  | 35     | Roof core   | None detected  | NA                           |
| 85                                | Center   | 35     | Roof core   | None detected  |                              |
| 86                                | Southeast  | 35     | Roof core   | None detected  |                              |
| 87                                | North vent   | 36     | Penetration mastic                                  | 6% chrysotile  | 60 SF ACM                    |
| 88                                | East pitch pocket                                    | 36     | Penetration mastic                                  | NA   |                              |
| 89                                | Southeast vent                                       | 36     | Penetration mastic                                  | NA   |                              |
| 90                                | Northeast vent                                       | 37     | Beige caulking                                      | 5% chrysotile  | 25 SF ACM                    |
| 91                                | North AC unit  | 38     | Gray caulking                                       | None detected  | NA                           |
| NS                                | Mechanical room                                      | 60     | Vibration damper                                    | ASSUMED  | 1 each                       |
| <b>Old Pool Chemical Building</b> |  |        |   |  |                              |
| 109                               | Roof center  | 45     | Roof core   | None detected  | NA                           |
| 110                               | Roof southeast                                       | 46     | Roof core   | None detected  |                              |
| 111                               | Roof west  | 47     | Base flashing                                       | None detected  |                              |
| 112                               | West vent pipe roofing area                          | 48     | Black mastic  | 5% chrysotile asbestos   | 2 SF ACM                     |
| 113                               | Southwest heater vent pipe                           | 49     | Gray mastic   | None detected  | NA                           |
| 114                               | West vent pipe                                       | 50     | Gray caulking                                       | None detected  | NA                           |
| 115                               | North edge roofing area                              | 51     | Gray caulking (old)                                 | 10% chrysotile asbestos  | 5 SF ACM                     |
| 118                               | Southwest ceiling                                    | 54     | Wall & ceiling plaster (coarse & smooth)            | None detected  | NA                           |
| 119                               | West wall  | 54     | Wall & ceiling plaster (coarse & smooth)            | None detected  |                              |

**Table 1 – Asbestos Survey Results**

| Sample ID No.   | Sample Location                | HA No.    | Sampled Material                         | Result                        | Approximate Quantity (SF/LF) |
|---|--------------------------------|-----------|--|-------------------------------|------------------------------|
| 120   | North wall                     | 54        | Wall & ceiling plaster (coarse & smooth) | None detected                 |                              |
| 121   | Pipe – 2”                      | 55        | Cloth-wrapped pipe insulation            | None detected                 | NA                           |
| <b>122</b>  | <b>Elbow – 2”</b>              | <b>56</b> | <b>Cloth-wrapped elbow insulation</b>    | <b>2% chrysotile asbestos</b> | <b>5 Each ACM</b>            |
| <b>Old Pool Storage Building</b>  |                                |           |  |                               |                              |
| 116   | Center                         | 52        | Roof core                                | None detected                 | Not applicable               |
| <b>117</b>  | <b>North edge roofing area</b> | <b>53</b> | <b>Black mastic</b>                      | <b>5% chrysotile asbestos</b> | <b>5 SF ACM</b>              |
| 123   | East wall                      | 57        | Drywall with joint compound              | None detected                 | NA                           |
| 124   | Center wall                    | 57        | Drywall with joint compound              | None detected                 |                              |
| 125   | West wall                      | 57        | Drywall with joint compound              | None detected                 |                              |
| 126   | East floor                     | 58        | 12” Blue floor tile & glue               | None detected                 | NA                           |
| 127   | East wall                      | 59        | 4” Gray cove base & glue                 | None detected                 | NA                           |
| <p><b>Notes:</b><br/>                     ” - inch<br/>                     ACM - asbestos containing material<br/>                     HA - homogeneous area<br/>                     ID - identification<br/>                     LF - linear feet<br/>                     NA - not applicable<br/>                     NO - number<br/>                     NS - not sampled<br/>                     SF - square feet<br/>                     SNA - sample not analyzed</p> |                                |           |  |                               |                              |

Table 2 - XRF Readings for Lead Containing Substances

| Reading No.               | Room           | Floor    | Side | Component               | Substrate    | Condition | Color           | Action Level (mg/cm <sup>2</sup> ) | Results  | Approximate Quantity | Lead Reading (mg/cm <sup>2</sup> ) |
|---------------------------|----------------|----------|------|-------------------------|--------------|-----------|-----------------|------------------------------------|----------|----------------------|------------------------------------|
| <b>Main Pool Building</b> |                |          |      |                         |              |           |                 |                                    |          |                      |                                    |
| 1                         | Mail pool area | First    | A    | Diving platform         | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 2                         | Mail pool area | First    | B    | Diving platform         | Metal        | Intact    | White           | 0.7                                | Negative |                      | 0.05                               |
| 3                         | Mail pool area | First    | A    | Diving platform         | Concrete     | Intact    | Blue            | 0.7                                | Negative |                      | 0.02                               |
| 4                         | Mail pool area | First    | B    | Diving platform railing | Metal        | Intact    | Blue            | 0.7                                | Negative |                      | 0.01                               |
| 5                         | Mail pool area | First    | 0    | Beam                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.03                               |
| 6                         | Mail pool area | First    | 0    | Beam                    | Concrete     | Intact    | Brown           | 0.7                                | Negative |                      | 0.01                               |
| 7                         | Mail pool area | First    | 0    | Floor                   | Concrete     | Intact    | Green           | 0.7                                | Negative |                      | 0.01                               |
| 8                         | Mail pool area | First    | A    | Door                    | Metal        | Intact    | Brown           | 0.7                                | Negative |                      | 0.02                               |
| 9                         | Mail pool area | First    | 0    | Floor                   | Ceramic tile | Intact    | Blue/light blue | 0.7                                | Negative |                      | 0.1                                |
| 10                        | Mail pool area | First    | 0    | Floor                   | Ceramic tile | Intact    | White           | 0.7                                | Negative |                      | 0.01                               |
| 11                        | Mail pool area | First    | 0    | Floor                   | Ceramic tile | Intact    | Blue            | 0.7                                | Negative |                      | 0.03                               |
| 12                        | Mail pool area | First    | 0    | Floor                   | Concrete     | Intact    | Red             | 0.7                                | Negative |                      | 0.03                               |
| 13                        | Swimming pool  | First    | 0    | Floor                   | Ceramic tile | Intact    | White           | 0.7                                | Positive | 14,125 SF            | 2.29                               |
| 14                        | Swimming pool  | First    | 0    | Floor                   | Ceramic tile | Intact    | White           | 0.7                                | Positive | Same as 13           | 2.45                               |
| 15                        | Swimming pool  | First    | 0    | Floor (small tile)      | Ceramic tile | Intact    | Blue            | 0.7                                | Negative |                      | 0.01                               |
| 16                        | Swimming pool  | First    | C    | Wall                    | Ceramic tile | Intact    | Blue            | 0.7                                | Positive | 600 SF               | 6.26                               |
| 17                        | Swimming pool  | First    | C    | Wall                    | Ceramic tile | Intact    | Light green     | 0.7                                | Positive | 4,000 SF             | 7.9                                |
| 18                        | Swimming pool  | First    | C    | Wall                    | Ceramic tile | Intact    | White           | 0.7                                | Positive | Same as 13           | 2.26                               |
| 19                        | Swimming pool  | First    | 0    | Floor                   | Ceramic tile | Intact    | Blue            | 0.7                                | Positive | Same as 16           | 6.45                               |
| 20                        | Roof           | Roof     | B    | Parapet wall            | Concrete     | Fair      | White           | 0.7                                | Positive | 3,700 SF             | 4.82                               |
| 21                        | Roof           | Roof     | 0    | Vent                    | Plaster      | Intact    | Silver          | 0.7                                | Negative |                      | 0.02                               |
| 22                        | Roof           | Roof     | 0    | Pipe                    | Metal        | Poor      | Silver          | 0.7                                | Negative |                      | 0.05                               |
| 23                        | Roof           | Roof     | 0    | Pipe                    | Metal        | Poor      | Silver          | 0.7                                | Negative |                      | 0.07                               |
| 24                        | Roof           | Roof     | 0    | Hatch                   | Metal        | Intact    | Silver          | 0.7                                | Negative |                      | 0.06                               |
| 25                        | Roof access    | Second   | B    | Wall                    | Plaster      | Fair      | Beige           | 0.7                                | Negative |                      | 0.15                               |
| 26                        | Roof access    | Second   | C    | Wall                    | Plaster      | Fair      | Beige           | 0.7                                | Negative |                      | 0.12                               |
| 27                        | Roof access    | Second   | D    | Wall                    | Plaster      | Fair      | Beige           | 0.7                                | Negative |                      | 0.1                                |
| 28                        | Roof access    | Second   | C    | Door                    | Metal        | Intact    | White           | 0.7                                | Negative |                      | 0.08                               |
| 29                        | Roof access    | Second   | C    | Door jamb               | Metal        | Intact    | Beige           | 0.7                                | Negative |                      | 0.11                               |
| 30                        | Exterior       | Exterior | A    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 31                        | Exterior       | Exterior | B    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 32                        | Exterior       | Exterior | C    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 33                        | Exterior       | Exterior | D    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 34                        | Exterior       | Exterior | C    | Door                    | Metal        | Intact    | Brown           | 0.7                                | Negative |                      | 0.03                               |
| 35                        | Exterior       | Exterior | C    | Bench                   | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.4                                |
| 36                        | Exterior       | Exterior | 0    | Floor                   | Concrete     | Poor      | Green           | 0.7                                | Negative |                      | 0.03                               |
| 37                        | Exterior       | Exterior | B    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.34                               |
| 38                        | Swimming pool  | First    | B    | Pool separator          | Plastic      | Intact    | White           | 0.7                                | Negative |                      | 0.03                               |
| 39                        | Swimming pool  | First    | B    | Pool separator          | Plastic      | Intact    | Blue            | 0.7                                | Negative |                      | 0.06                               |
| 40                        | Swimming pool  | First    | A    | Wall                    | Ceramic tile | Intact    | White           | 0.7                                | Positive | Same as 13           | 3.85                               |
| 41                        | Diving pool    | First    | C    | Wall                    | Ceramic tile | Intact    | Light green     | 0.7                                | Positive | Same as 17           | 7.48                               |
| 42                        | Diving pool    | First    | B    | Wall                    | Ceramic tile | Intact    | Blue            | 0.7                                | Positive | Same as 16           | 6.46                               |
| 43                        | Diving pool    | First    | 0    | Floor                   | Ceramic tile | Intact    | White           | 0.7                                | Positive | Same as 13           | 3.11                               |
| 44                        | Diving pool    | First    | 0    | Floor (small tile)      | Ceramic tile | Intact    | Blue            | 0.7                                | Negative |                      | 0.03                               |
| 45                        | Diving pool    | First    | C    | Wall                    | Ceramic tile | Intact    | White           | 0.7                                | Positive | Same as 13           | 3.41                               |
| 46                        | Main pool area | First    | C    | Bleachers               | Metal        | Intact    | Gold            | 0.7                                | Negative |                      | 0.04                               |
| 47                        | Main pool area | First    | C    | Bleachers               | Metal        | Intact    | Red             | 0.7                                | Negative |                      | 0.03                               |
| 48                        | Main pool area | First    | C    | Bleacher guard rail     | Wood         | Intact    | Blue            | 0.7                                | Negative |                      | 0.02                               |
| 49                        | Main pool area | First    | A    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 50                        | Main pool area | First    | B    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 51                        | Main pool area | First    | C    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 52                        | Main pool area | First    | D    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 53                        | Main pool area | First    | B    | Wall overhang           | Concrete     | Intact    | White           | 0.7                                | Positive | 320 SF               | 1.9                                |
| 54                        | Main pool area | First    | B    | Wall overhang           | Concrete     | Intact    | Blue            | 0.7                                | Negative |                      | 0.05                               |
| 55                        | Main pool area | First    | B    | Railing                 | Metal        | Intact    | Black           | 0.7                                | Negative |                      | 0.03                               |
| 56                        | Main pool area | First    | B    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.02                               |
| 57                        | Main pool area | First    | B    | Wall                    | Wood         | Intact    | White           | 0.7                                | Negative |                      | 0.4                                |
| 58                        | Main pool area | First    | B    | Wall                    | Metal        | Intact    | Black           | 0.7                                | Negative |                      | 0.01                               |
| 59                        | Main pool area | First    | B    | Door barrier            | Wood         | Intact    | White           | 0.7                                | Negative |                      | 0.01                               |
| 60                        | Main pool area | First    | B    | Pulley pole             | Metal        | Poor      | Yellow          | 0.7                                | Negative |                      | 0.03                               |
| 61                        | Main pool area | First    | B    | Wall                    | Concrete     | Poor      | White           | 0.7                                | Negative |                      | 0.13                               |
| 62                        | Main pool area | First    | B    | Air duct                | Metal        | Poor      | White           | 0.7                                | Negative |                      | 0.1                                |
| 63                        | Main pool area | First    | 0    | Floor                   | Concrete     | Poor      | Green           | 0.7                                | Negative |                      | 0.03                               |
| 64                        | Main pool area | First    | 0    | Floor hatch             | Metal        | Intact    | Green           | 0.7                                | Positive | 20 SF                | 1.93                               |
| 65                        | Main pool area | First    | B    | Wall                    | Concrete     | Intact    | White           | 0.7                                | Negative |                      | 0.1                                |
| 66                        | Main pool area | First    | D    | Wall                    | Metal        | Intact    | Beige           | 0.7                                | Negative |                      | 0.12                               |
| 67                        | Main pool area | First    | D    | Cabinet                 | Metal        | Intact    | Beige           | 0.7                                | Negative |                      | 0.08                               |
| 68                        | Main pool area | First    | D    | Cabinet                 | Wood         | Intact    | Beige           | 0.7                                | Negative |                      | 0.03                               |
| 69                        | Main pool area | First    | B    | Baseboard               | Concrete     | Intact    | Green           | 0.7                                | Negative |                      | 0.02                               |
| 70                        | Main pool area | First    | 0    | Floor                   | Concrete     | Intact    | Green           | 0.7                                | Negative |                      | 0.04                               |
| 71                        | Main pool area | First    | B    | Roll-up door            | Metal        | Intact    | White           | 0.7                                | Negative |                      | 0.01                               |

Table 2 - XRF Readings for Lead Containing Substances

| Reading No. | Room                   | Floor          | Side | Component                | Substrate | Condition | Color  | Action Level (mg/cm <sup>2</sup> ) | Results  | Approximate Quantity | Lead Reading (mg/cm <sup>2</sup> ) |
|-------------|------------------------|----------------|------|--------------------------|-----------|-----------|--------|------------------------------------|----------|----------------------|------------------------------------|
| 72          | Main pool area         | First          | D    | Wall overhang            | Concrete  | Intact    | White  | 0.7                                | Positive | Same as 52           | 1.33                               |
| 73          | Main pool area         | First          | D    | Wall overhang            | Concrete  | Intact    | Blue   | 0.7                                | Negative |                      | 0.02                               |
| 74          | Main pool area         | First          | D    | Wall overhang sign       | Metal     | Intact    | Black  | 0.7                                | Negative |                      | 0.08                               |
| 75          | Main pool area         | First          | D    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 76          | Main pool area         | First          | B    | Column                   | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 77          | Basement access        | First/Basement | B    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.12                               |
| 78          | Basement access        | First/Basement | B    | Wall                     | Concrete  | Intact    | Beige  | 0.7                                | Negative |                      | 0.13                               |
| 79          | Basement access        | First/Basement | B    | Wall                     | Plaster   | Intact    | Beige  | 0.7                                | Negative |                      | 0.1                                |
| 80          | Basement access        | First/Basement | B    | Wall                     | Plaster   | Intact    | White  | 0.7                                | Negative |                      | 0.09                               |
| 81          | Basement access        | First/Basement | 0    | Stairs                   | Concrete  | Intact    | Green  | 0.7                                | Negative |                      | 0.09                               |
| 82          | Basement access        | First/Basement | D    | Railing                  | Metal     | Intact    | Green  | 0.7                                | Negative |                      | 0.11                               |
| 83          | Basement access        | First/Basement | A    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.09                               |
| 84          | Basement access        | First/Basement | B    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.09                               |
| 85          | Basement access        | First/Basement | D    | Wall                     | Concrete  | Intact    | Black  | 0.7                                | Negative |                      | 0.29                               |
| 86          | Basement access        | First/Basement | 0    | Ceiling                  | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.06                               |
| 87          | Basement access        | First/Basement | D    | Door                     | Wood      | Intact    | Beige  | 0.7                                | Negative |                      | 0.1                                |
| 88          | Basement access        | First/Basement | D    | Door frame               | Metal     | Intact    | Brown  | 0.7                                | Negative |                      | 0.1                                |
| 89          | Basement access        | First/Basement | D    | Door jamb                | Metal     | Intact    | Brown  | 0.7                                | Negative |                      | 0.08                               |
| 90          | Hallway                | Basement       | C    | Wall                     | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.13                               |
| 91          | Hallway                | Basement       | A    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.12                               |
| 92          | Hallway                | Basement       | A    | Hatch                    | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.18                               |
| 93          | Hallway                | Basement       | D    | Column                   | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.05                               |
| 94          | Hallway                | Basement       | B    | Wall                     | Concrete  | Poor      | White  | 0.7                                | Negative |                      | 0.05                               |
| 95          | Hallway                | Basement       | C    | Wall                     | Concrete  | Poor      | White  | 0.7                                | Negative |                      | 0.05                               |
| 96          | Hallway                | Basement       | D    | Wall                     | Concrete  | Poor      | White  | 0.7                                | Negative |                      | 0.05                               |
| 97          | Hallway                | Basement       | D    | Window sill              | Concrete  | Fair      | White  | 0.7                                | Negative |                      | 0.01                               |
| 98          | Hallway                | Basement       | B    | Electrical panel         | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.12                               |
| 99          | Pool equipment storage | Basement       | A    | Door                     | Wood      | Intact    | Green  | 0.7                                | Negative |                      | 0.01                               |
| 100         | Pool equipment storage | Basement       | A    | Door frame               | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.1                                |
| 101         | Pool equipment storage | Basement       | A    | Door jamb                | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.08                               |
| 102         | Pool equipment storage | Basement       | 0    | Air duct                 | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.07                               |
| 103         | Pool equipment storage | Basement       | 0    | Pipe                     | Metal     | Fair      | White  | 0.7                                | Positive | 1,000 LF             | 1.23                               |
| 104         | Pool equipment storage | Basement       | 0    | Pipe                     | Metal     | Poor      | White  | 0.7                                | Positive | Same as 103          | 0.87                               |
| 105         | Pool equipment storage | Basement       | A    | Wall                     | Concrete  | Intact    | Blue   | 0.7                                | Negative |                      | 0.15                               |
| 106         | Pool equipment storage | Basement       | B    | Wall                     | Concrete  | Intact    | Blue   | 0.7                                | Negative |                      | 0.18                               |
| 107         | Pool equipment storage | Basement       | C    | Wall                     | Concrete  | Intact    | Green  | 0.7                                | Negative |                      | 0.13                               |
| 108         | Pool equipment storage | Basement       | D    | Wall                     | Concrete  | Intact    | Blue   | 0.7                                | Negative |                      | 0.23                               |
| 109         | Pool equipment storage | Basement       | C    | Air duct                 | Metal     | Intact    | Green  | 0.7                                | Negative |                      | 0.08                               |
| 110         | Pool equipment storage | Basement       | 0    | Pipe                     | Metal     | Intact    | White  | 0.7                                | Positive | Same as 103          | 1.67                               |
| 111         | Pool equipment storage | Basement       | 0    | Pipe                     | Metal     | Intact    | White  | 0.7                                | Positive | Same as 103          | 1.91                               |
| 112         | Pool equipment storage | Basement       | 0    | Ceiling                  | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.04                               |
| 113         | Pool equipment storage | Basement       | 0    | Pipe                     | Metal     | Fair      | White  | 0.7                                | Positive | Same as 103          | 3.02                               |
| 114         | Pool equipment storage | Basement       | 0    | Pipe insulation          | Foam      | Intact    | White  | 0.7                                | Negative |                      | 0.05                               |
| 115         | Pool equipment storage | Basement       | 0    | Pipe insulation          | Foam      | Intact    | White  | 0.7                                | Negative |                      | 0.26                               |
| 116         | Hallway                | Basement       | 0    | Air duct                 | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.4                                |
| 117         | Hallway                | Basement       | 0    | Pipe                     | Metal     | Fair      | White  | 0.7                                | Positive | Same as 103          | 1.3                                |
| 118         | Hallway                | Basement       | 0    | Pipe                     | Metal     | Fair      | White  | 0.7                                | Positive | Same as 103          | 1.79                               |
| 119         | Hallway                | Basement       | C    | Door                     | Metal     | Intact    | Green  | 0.7                                | Negative |                      | 0.03                               |
| 120         | Hallway                | Basement       | C    | Door frame               | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.19                               |
| 121         | Hallway                | Basement       | C    | Door jamb                | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.12                               |
| 122         | Filter tank room       | Basement       | D    | Column                   | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.16                               |
| 123         | Filter tank room       | Basement       | A    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.16                               |
| 124         | Filter tank room       | Basement       | B    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.16                               |
| 125         | Filter tank room       | Basement       | C    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.16                               |
| 126         | Filter tank room       | Basement       | D    | Wall                     | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.16                               |
| 127         | Filter tank room       | Basement       | D    | Pipe                     | Metal     | Intact    | White  | 0.7                                | Positive | 1,000 LF             | 1.37                               |
| 128         | Filter tank room       | Basement       | D    | Pipe                     | Metal     | Intact    | White  | 0.7                                | Positive | Same as 127          | 1.29                               |
| 129         | Filter tank room       | Basement       | D    | Pipe                     | Metal     | Intact    | White  | 0.7                                | Positive | Same as 127          | 1.71                               |
| 130         | Filter tank room       | Basement       | D    | Pipe                     | Metal     | Intact    | White  | 0.7                                | Positive | Same as 127          | 2.29                               |
| 131         | Filter tank room       | Basement       | D    | Control panel            | Metal     | Intact    | Yellow | 0.7                                | Positive | 10 SF                | 4.58                               |
| 132         | Filter tank room       | Basement       | 0    | Air duct                 | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.06                               |
| 133         | Filter tank room       | Basement       | 0    | Ceiling                  | Concrete  | Intact    | White  | 0.7                                | Negative |                      | 0.2                                |
| 134         | Filter tank room       | Basement       | A    | Filter tank              | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.13                               |
| 135         | Filter tank room       | Basement       | C    | Filter tank              | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.12                               |
| 136         | Filter tank room       | Basement       | A    | Vent                     | Metal     | Intact    | White  | 0.7                                | Negative |                      | 0.11                               |
| 137         | Filter tank room       | Basement       | A    | Vent                     | Wood      | Intact    | White  | 0.7                                | Negative |                      | 0.13                               |
| 138         | Filter tank room       | Basement       | C    | Electrical control panel | Metal     | Intact    | Blue   | 0.7                                | Negative |                      | 0.07                               |
| 139         | Filter tank room       | Basement       | B    | Railing                  | Metal     | Intact    | Green  | 0.7                                | Negative |                      | 0.16                               |
| 140         | Filter tank room       | Basement       | B    | Door                     | Wood      | Intact    | Gray   | 0.7                                | Negative |                      | 0.24                               |
| 141         | Filter tank room       | Basement       | B    | Door frame               | Metal     | Intact    | Gray   | 0.7                                | Negative |                      | 0.14                               |
| 142         | Electrical panel room  | Basement       | B    | Wall                     | Plaster   | Intact    | Tan    | 0.7                                | Negative |                      | 0.13                               |
| 143         | Electrical panel room  | Basement       | B    | Column                   | Concrete  | Intact    | Tan    | 0.7                                | Negative |                      | 0.12                               |

Table 2 - XRF Readings for Lead Containing Substances

| Reading No.                | Room                  | Floor    | Side | Component        | Substrate    | Condition | Color       | Action Level (mg/cm <sup>2</sup> ) | Results  | Approximate Quantity | Lead Reading (mg/cm <sup>2</sup> ) |
|----------------------------|-----------------------|----------|------|------------------|--------------|-----------|-------------|------------------------------------|----------|----------------------|------------------------------------|
| 144                        | Electrical panel room | Basement | B    | Pipe             | Metal        | Intact    | Tan         | 0.7                                | Negative |                      | 0.17                               |
| 145                        | Electrical panel room | Basement | C    | Electrical panel | Metal        | Poor      | Tan         | 0.7                                | Negative |                      | 0.1                                |
| 146                        | Electrical panel room | Basement | C    | Control panel    | Metal        | Intact    | Blue        | 0.7                                | Negative |                      | 0.06                               |
| 147                        | Electrical panel room | Basement | C    | Pipe             | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.14                               |
| 148                        | Electrical panel room | Basement | C    | Pipe             | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.14                               |
| 149                        | Electrical panel room | Basement | D    | Wall             | Wood         | Intact    | White       | 0.7                                | Negative |                      | 0.02                               |
| 150                        | Electrical panel room | Basement | B    | Railing          | Metal        | Intact    | Yellow      | 0.7                                | Negative |                      | 0.23                               |
| 151                        | Electrical panel room | Basement | A    | Wall             | Plaster      | Intact    | White       | 0.7                                | Negative |                      | 0.12                               |
| 152                        | Electrical panel room | Basement | B    | Wall             | Concrete     | Intact    | Tan         | 0.7                                | Negative |                      | 0.12                               |
| 153                        | Electrical panel room | Basement | B    | Stairs           | Metal        | Intact    | Gray        | 0.7                                | Negative |                      | 0.25                               |
| 154                        | Water heater room     | Basement | C    | Wall             | Concrete     | Intact    | White       | 0.7                                | Negative |                      | 0.1                                |
| 155                        | Water heater room     | Basement | C    | Pipe             | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.18                               |
| 156                        | Water heater room     | Basement | B    | Pipe             | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.16                               |
| 157                        | Water heater room     | Basement | D    | Pipe             | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.17                               |
| 158                        | Water heater room     | Basement | A    | Pipe             | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.18                               |
| 159                        | Water heater room     | Basement | 0    | Ceiling          | Concrete     | Intact    | White       | 0.7                                | Negative |                      | 0.09                               |
| 160                        | Chlorine room         | Basement | A    | Vent             | Metal        | Poor      | Tan         | 0.7                                | Negative |                      | 0.02                               |
| 161                        | Chlorine room         | Basement | A    | Wall             | Concrete     | Intact    | Tan         | 0.7                                | Negative |                      | 0.09                               |
| 162                        | Chlorine room         | Basement | B    | Wall             | Concrete     | Intact    | Tan         | 0.7                                | Negative |                      | 0.09                               |
| 163                        | Chlorine room         | Basement | C    | Wall             | Concrete     | Intact    | Tan         | 0.7                                | Negative |                      | 0.09                               |
| 164                        | Chlorine room         | Basement | D    | Wall             | Concrete     | Intact    | Tan         | 0.7                                | Negative |                      | 0.09                               |
| 165                        | Chlorine room         | Basement | B    | Door             | Wood         | Intact    | Tan         | 0.7                                | Negative |                      | 0.46                               |
| 166                        | Chlorine room         | Basement | 0    | Ceiling          | Metal        | Intact    | Tan         | 0.7                                | Negative |                      | 0.03                               |
| 167                        | Chlorine room         | Basement | D    | Door             | Metal        | Intact    | Tan         | 0.7                                | Negative |                      | 0.16                               |
| 168                        | Chlorine room         | Basement | D    | Door frame       | Metal        | Intact    | Tan         | 0.7                                | Negative |                      | 0.09                               |
| 169                        | Chlorine room         | Basement | D    | Door jamb        | Metal        | Intact    | Tan         | 0.7                                | Negative |                      | 0.14                               |
| 170                        | Store room            | Basement | C    | Wall             | Concrete     | Intact    | White       | 0.7                                | Negative |                      | 0.12                               |
| 171                        | Store room            | Basement | C    | Wall             | Concrete     | Intact    | Blue        | 0.7                                | Negative |                      | 0.13                               |
| 172                        | Store room            | Basement | C    | Pipe             | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.14                               |
| 173                        | Store room            | Basement | B    | Door kick        | Metal        | Intact    | Green       | 0.7                                | Negative |                      | 0.03                               |
| 174                        | Store room            | Basement | B    | Door             | Metal        | Intact    | Brown       | 0.7                                | Negative |                      | 0.23                               |
| <b>Restaurant Building</b> |                       |          |      |                  |              |           |             |                                    |          |                      |                                    |
| 175                        | Dining area           | First    | 0    | Floor            | Ceramic tile | Intact    | Light green | 0.7                                | Negative |                      | 0.54                               |
| 176                        | Dining area           | First    | B    | Wall             | Wood         | Intact    | Beige       | 0.7                                | Negative |                      | 0.01                               |
| 177                        | Dining area           | First    | B    | Window frame     | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.02                               |
| 178                        | Dining area           | First    | B    | Window frame     | Wood         | Intact    | White       | 0.7                                | Negative |                      | 0.01                               |
| 179                        | Dining area           | First    | B    | Column           | Concrete     | Intact    | White       | 0.7                                | Negative |                      | 0.03                               |
| 180                        | Dining area           | First    | B    | Column           | Ceramic tile | Intact    | Light green | 0.7                                | Negative |                      | 0.55                               |
| 181                        | Dining area           | First    | B    | Wall             | Plaster      | Intact    | White       | 0.7                                | Negative |                      | 0.02                               |
| 182                        | Dining area           | First    | C    | Column           | Concrete     | Intact    | Brown       | 0.7                                | Negative |                      | 0.05                               |
| 183                        | Dining area           | First    | C    | Baseboard        | Ceramic tile | Intact    | Light green | 0.7                                | Negative |                      | 0.64                               |
| 184                        | Dining area           | First    | B    | Cabinet          | Wood         | Intact    | Beige       | 0.7                                | Negative |                      | 0.04                               |
| 185                        | Dining area           | First    | C    | Electric box     | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.01                               |
| 186                        | Dining area           | First    | B    | Column           | Concrete     | Intact    | White       | 0.7                                | Negative |                      | 0.07                               |
| 187                        | Dining area           | First    | C    | Wall             | Metal        | Intact    | Yellow      | 0.7                                | Negative |                      | 0.01                               |
| 188                        | Dining area           | First    | C    | Wall             | Metal        | Intact    | Red         | 0.7                                | Negative |                      | 0.03                               |
| 189                        | Dining area           | First    | C    | Wall             | Metal        | Intact    | Blue        | 0.7                                | Negative |                      | 0.01                               |
| 190                        | Dining area           | First    | D    | Wall             | Plaster      | Intact    | Pink        | 0.7                                | Negative |                      | 0.03                               |
| 191                        | Dining area           | First    | D    | Wall             | Plaster      | Intact    | Yellow      | 0.7                                | Negative |                      | 0.01                               |
| 192                        | Women's restroom      | First    | D    | Door             | Wood         | Intact    | Green       | 0.7                                | Negative |                      | 0.01                               |
| 193                        | Women's restroom      | First    | D    | Door frame       | Wood         | Intact    | Green       | 0.7                                | Negative |                      | 0.02                               |
| 194                        | Entry hall            | First    | C    | Wall             | Concrete     | Intact    | Pink        | 0.7                                | Negative |                      | 0.02                               |
| 195                        | Entry hall            | First    | A    | Window frame     | Metal        | Intact    | Green       | 0.7                                | Negative |                      | 0.01                               |
| 196                        | Entry hall            | First    | B    | Window frame     | Metal        | Intact    | Green       | 0.7                                | Negative |                      | 0.01                               |
| 197                        | Entry hall            | First    | C    | Window frame     | Metal        | Intact    | Green       | 0.7                                | Negative |                      | 0.01                               |
| 198                        | Entry hall            | First    | D    | Wall             | Concrete     | Intact    | White       | 0.7                                | Negative |                      | 0.09                               |
| 199                        | Men's restroom        | First    | D    | Door             | Wood         | Intact    | Blue        | 0.7                                | Negative |                      | 0.47                               |
| 200                        | Women's restroom      | First    | D    | Door             | Wood         | Intact    | Pink        | 0.7                                | Negative |                      | 0.05                               |
| 201                        | Men's restroom        | First    | D    | Door frame       | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.05                               |
| 202                        | Men's restroom        | First    | D    | Door jamb        | Metal        | Intact    | White       | 0.7                                | Negative |                      | 0.06                               |
| 203                        | Men's restroom        | First    | 0    | Floor            | Ceramic tile | Intact    | Gray        | 0.7                                | Negative |                      | 0.11                               |
| 204                        | Men's restroom        | First    | B    | Wall             | Ceramic tile | Intact    | Gray        | 0.7                                | Negative |                      | 0.04                               |
| 205                        | Men's restroom        | First    | B    | Wall             | Ceramic tile | Intact    | Black       | 0.7                                | Negative |                      | 0.04                               |
| 206                        | Men's restroom        | First    | A    | Wall             | Ceramic tile | Intact    | Gray        | 0.7                                | Negative |                      | 0.04                               |
| 207                        | Men's restroom        | First    | A    | Wall             | Ceramic tile | Intact    | Black       | 0.7                                | Negative |                      | 0.04                               |
| 208                        | Men's restroom        | First    | D    | Wall             | Ceramic tile | Intact    | Gray        | 0.7                                | Negative |                      | 0.04                               |
| 209                        | Men's restroom        | First    | D    | Wall             | Ceramic tile | Intact    | Black       | 0.7                                | Negative |                      | 0.04                               |
| 210                        | Men's restroom        | First    | C    | Wall             | Ceramic tile | Intact    | Gray        | 0.7                                | Negative |                      | 0.04                               |
| 211                        | Men's restroom        | First    | C    | Wall             | Ceramic tile | Intact    | Black       | 0.7                                | Negative |                      | 0.04                               |
| 212                        | Men's restroom        | First    | C    | Sink             | Porcelain    | Intact    | White       | 0.7                                | Negative |                      | 0.01                               |
| 213                        | Men's restroom        | First    | A    | Urinal           | Porcelain    | Intact    | White       | 0.7                                | Negative |                      | 0.03                               |
| 214                        | Men's restroom        | First    | A    | Toilet           | Porcelain    | Intact    | White       | 0.7                                | Negative |                      | 0.03                               |

Table 2 - XRF Readings for Lead Containing Substances

| Reading No. | Room                     | Floor    | Side | Component    | Substrate    | Condition | Color | Action Level (mg/cm <sup>2</sup> ) | Results  | Approximate Quantity | Lead Reading (mg/cm <sup>2</sup> ) |
|-------------|--------------------------|----------|------|--------------|--------------|-----------|-------|------------------------------------|----------|----------------------|------------------------------------|
| 215         | Men's restroom           | First    | 0    | Ceiling      | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.08                               |
| 216         | Men's restroom           | First    | 0    | Ceiling vent | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.1                                |
| 217         | Women's restroom         | First    | A    | Wall         | Ceramic tile | Intact    | Gray  | 0.7                                | Negative |                      | 0.04                               |
| 218         | Women's restroom         | First    | A    | Wall         | Ceramic tile | Intact    | Black | 0.7                                | Negative |                      | 0.04                               |
| 219         | Women's restroom         | First    | B    | Wall         | Ceramic tile | Intact    | Gray  | 0.7                                | Negative |                      | 0.04                               |
| 220         | Women's restroom         | First    | B    | Wall         | Ceramic tile | Intact    | Black | 0.7                                | Negative |                      | 0.04                               |
| 221         | Women's restroom         | First    | C    | Wall         | Ceramic tile | Intact    | Gray  | 0.7                                | Negative |                      | 0.04                               |
| 222         | Women's restroom         | First    | C    | Wall         | Ceramic tile | Intact    | Black | 0.7                                | Negative |                      | 0.04                               |
| 223         | Women's restroom         | First    | D    | Wall         | Ceramic tile | Intact    | Gray  | 0.7                                | Negative |                      | 0.04                               |
| 224         | Women's restroom         | First    | D    | Wall         | Ceramic tile | Intact    | Black | 0.7                                | Negative |                      | 0.04                               |
| 225         | Women's restroom         | First    | 0    | Floor        | Ceramic tile | Intact    | Gray  | 0.7                                | Negative |                      | 0.11                               |
| 226         | Women's restroom         | First    | 0    | Ceiling      | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.08                               |
| 227         | Women's restroom         | First    | A    | Sink         | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.01                               |
| 228         | Women's restroom         | First    | C    | Toilet       | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.03                               |
| 229         | Entry hall               | First    | A    | Door         | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.01                               |
| 230         | Entry hall               | First    | A    | Door jamb    | Metal        | Intact    | Green | 0.7                                | Negative |                      | 0.03                               |
| 231         | Entry hall               | First    | C    | Trim         | Metal        | Intact    | Gray  | 0.7                                | Negative |                      | 0.01                               |
| 232         | Women's private restroom | First    | D    | Door         | Metal        | Intact    | Green | 0.7                                | Negative |                      | 0.02                               |
| 233         | Women's private restroom | First    | 0    | Floor        | Tile         | Intact    | Brown | 0.7                                | Negative |                      | 0.02                               |
| 234         | Women's private restroom | First    | C    | Wall         | Ceramic tile | Intact    | Brown | 0.7                                | Negative |                      | 0.33                               |
| 235         | Women's private restroom | First    | C    | Wall         | Ceramic tile | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 236         | Women's private restroom | First    | 0    | Ceiling      | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.03                               |
| 237         | Women's private restroom | First    | A    | Wall         | Ceramic tile | Intact    | Brown | 0.7                                | Negative |                      | 0.33                               |
| 238         | Women's private restroom | First    | A    | Wall         | Ceramic tile | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 239         | Women's private restroom | First    | B    | Wall         | Ceramic tile | Intact    | Brown | 0.7                                | Negative |                      | 0.33                               |
| 240         | Women's private restroom | First    | B    | Wall         | Ceramic tile | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 241         | Women's private restroom | First    | D    | Wall         | Ceramic tile | Intact    | Brown | 0.7                                | Negative |                      | 0.33                               |
| 242         | Women's private restroom | First    | D    | Wall         | Ceramic tile | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 243         | Dining area              | First    | D    | Cabinet      | Wood         | Intact    | Green | 0.7                                | Negative |                      | 0.02                               |
| 244         | Dining area              | First    | D    | Wall         | Plaster      | Intact    | Green | 0.7                                | Negative |                      | 0.03                               |
| 245         | Dining area              | First    | A    | Wall         | Plaster      | Intact    | Green | 0.7                                | Negative |                      | 0.03                               |
| 246         | Dining area              | First    | D    | Bar trim     | Ceramic tile | Intact    | Blue  | 0.7                                | Negative |                      | 0.03                               |
| 247         | Dining area              | First    | B    | Bar cabinet  | Wood         | Intact    | White | 0.7                                | Negative |                      | 0.05                               |
| 248         | Dining area              | First    | D    | Pipe         | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.01                               |
| 249         | Dining area              | First    | 0    | Ceiling      | Plaster      | Intact    | Gold  | 0.7                                | Negative |                      | 0.01                               |
| 250         | Kitchen                  | First    | C    | Door         | Metal        | Intact    | Beige | 0.7                                | Negative |                      | 0.03                               |
| 251         | Kitchen                  | First    | D    | Wall         | Plaster      | Intact    | Gold  | 0.7                                | Negative |                      | 0.01                               |
| 252         | Kitchen                  | First    | D    | Trim         | Metal        | Intact    | Blue  | 0.7                                | Negative |                      | 0.01                               |
| 253         | Kitchen                  | First    | C    | Wall         | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 254         | Kitchen                  | First    | A    | Wall         | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 255         | Kitchen                  | First    | B    | Wall         | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 256         | Kitchen                  | First    | D    | Wall         | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 257         | Supply room              | First    | A    | Wall         | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.06                               |
| 258         | Supply room              | First    | B    | Wall         | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.06                               |
| 259         | Supply room              | First    | C    | Wall         | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.06                               |
| 260         | Supply room              | First    | D    | Wall         | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.06                               |
| 261         | Supply room              | First    | A    | Door         | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.01                               |
| 262         | Supply room              | First    | A    | Door jamb    | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.01                               |
| 263         | Supply room              | First    | A    | Door frame   | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.32                               |
| 264         | Kitchen                  | First    | D    | Column       | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.06                               |
| 265         | Exterior                 | Exterior | A    | Railing      | Metal        | Fair      | Green | 0.7                                | Negative |                      | 0.01                               |
| 266         | Exterior                 | Exterior | A    | Wall         | Metal        | Intact    | Green | 0.7                                | Negative |                      | 0.03                               |
| 267         | Exterior                 | Exterior | B    | Wall         | Metal        | Intact    | Green | 0.7                                | Negative |                      | 0.03                               |
| 268         | Exterior                 | Exterior | C    | Wall         | Metal        | Intact    | Green | 0.7                                | Negative |                      | 0.03                               |
| 269         | Promenade                | Second   | D    | Wall         | Plaster      | Intact    | Red   | 0.7                                | Negative |                      | 0.02                               |
| 270         | Promenade                | Second   | A    | Wall         | Concrete     | Intact    | Beige | 0.7                                | Negative |                      | 0.09                               |
| 271         | Promenade                | Second   | D    | Column       | Concrete     | Intact    | Beige | 0.7                                | Negative |                      | 0.08                               |
| 272         | Promenade                | Second   | 0    | Floor        | Tile         | Intact    | White | 0.7                                | Negative |                      | 0.03                               |
| 273         | Promenade                | Second   | C    | Door         | Metal        | Intact    | Brown | 0.7                                | Negative |                      | 0.02                               |
| 274         | Office                   | Second   | C    | Door         | Wood         | Intact    | Beige | 0.7                                | Negative |                      | 0.06                               |
| 275         | Office                   | Second   | C    | Door frame   | Metal        | Intact    | Brown | 0.7                                | Negative |                      | 0.02                               |
| 276         | Office                   | Second   | C    | Door jamb    | Metal        | Intact    | Brown | 0.7                                | Negative |                      | 0.02                               |
| 277         | Roof                     | Roof     | D    | Wall         | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 278         | Roof                     | Roof     | B    | Parapet wall | Concrete     | Intact    | White | 0.7                                | Positive | 1,800 SF             | 3.15                               |
| 279         | Roof                     | Roof     | A    | Parapet wall | Concrete     | Intact    | White | 0.7                                | Positive | Same as 278          | 3.15                               |
| 280         | Roof                     | Roof     | C    | Parapet wall | Concrete     | Intact    | White | 0.7                                | Positive | Same as 278          | 3.15                               |
| 281         | Roof                     | Roof     | 0    | Vent         | Metal        | Fair      | White | 0.7                                | Negative |                      | 0.04                               |
| 282         | Roof                     | Roof     | 0    | Hatch        | Metal        | Poor      | Brown | 0.7                                | Negative |                      | 0.04                               |
| 283         | Roof                     | Roof     | D    | Ladder       | Metal        | Fair      | Black | 0.7                                | Negative |                      | 0.09                               |
| 284         | Men's restroom           | Second   | 0    | Floor        | Ceramic tile | Intact    | White | 0.7                                | Negative |                      | 0.01                               |
| 285         | Men's restroom           | Second   | C    | Wall         | Ceramic tile | Intact    | White | 0.7                                | Negative |                      | 0.02                               |
| 286         | Men's restroom           | Second   | A    | Wall         | Ceramic tile | Intact    | Beige | 0.7                                | Positive | 260 SF               | 3.62                               |

Table 2 - XRF Readings for Lead Containing Substances

| Reading No. | Room              | Floor             | Side | Component        | Substrate    | Condition | Color | Action Level (mg/cm <sup>2</sup> ) | Results  | Approximate Quantity | Lead Reading (mg/cm <sup>2</sup> ) |
|-------------|-------------------|-------------------|------|------------------|--------------|-----------|-------|------------------------------------|----------|----------------------|------------------------------------|
| 287         | Men's restroom    | Second            | A    | Wall             | Plaster      | Intact    | Beige | 0.7                                | Negative |                      | 0.02                               |
| 288         | Men's restroom    | Second            | B    | Stall            | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.07                               |
| 289         | Men's restroom    | Second            | C    | Urinal           | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.02                               |
| 290         | Men's restroom    | Second            | C    | Sink             | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 291         | Men's restroom    | Second            | C    | Sink             | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.02                               |
| 292         | Men's restroom    | Second            | C    | Toilet           | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.09                               |
| 293         | Men's restroom    | Second            | 0    | Ceiling vent     | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.05                               |
| 294         | Men's restroom    | Second            | A    | Wall             | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.11                               |
| 295         | Men's restroom    | Second            | D    | Wall             | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.11                               |
| 296         | Men's restroom    | Second            | A    | Column           | Concrete     | Intact    | Brown | 0.7                                | Negative |                      | 0.1                                |
| 297         | Men's restroom    | Second            | D    | Door             | Wood         | Intact    | White | 0.7                                | Negative |                      | 0.01                               |
| 298         | Men's restroom    | Second            | D    | Door jamb        | Wood         | Intact    | Brown | 0.7                                | Negative |                      | 0.01                               |
| 299         | Men's restroom    | Second            | D    | Door jamb        | Metal        | Intact    | Brown | 0.7                                | Negative |                      | 0.28                               |
| 300         | Men's restroom    | Second            | D    | Door frame       | Metal        | Intact    | Brown | 0.7                                | Negative |                      | 0.03                               |
| 301         | Men's restroom    | Second            | B    | Door             | Wood         | Intact    | Beige | 0.7                                | Negative |                      | 0.01                               |
| 302         | Men's restroom    | Second            | B    | Wall             | Plaster      | Intact    | Beige | 0.7                                | Negative |                      | 0.07                               |
| 303         | Office            | Second            | A    | Wall             | Plaster      | Intact    | Beige | 0.7                                | Negative |                      | 0.05                               |
| 304         | Office            | Second            | B    | Wall             | Plaster      | Intact    | Beige | 0.7                                | Negative |                      | 0.05                               |
| 305         | Office            | Second            | C    | Wall             | Plaster      | Intact    | Beige | 0.7                                | Negative |                      | 0.05                               |
| 306         | Office            | Second            | D    | Wall             | Metal        | Poor      | White | 0.7                                | Negative |                      | 0.08                               |
| 307         | Office            | Second            | D    | Baseboard        | Wood         | Intact    | Pink  | 0.7                                | Negative |                      | 0.02                               |
| 308         | Conference room   | Second            | A    | Wall             | Wood         | Intact    | Beige | 0.7                                | Negative |                      | 0.01                               |
| 309         | Conference room   | Second            | C    | Wall             | Wood         | Intact    | Beige | 0.7                                | Negative |                      | 0.01                               |
| 310         | Conference room   | Second            | B    | Window frame     | Metal        | Intact    | Brown | 0.7                                | Negative |                      | 0.03                               |
| 311         | Conference room   | Second            | A    | Door             | Wood         | Intact    | Beige | 0.7                                | Negative |                      | 0.03                               |
| 312         | Storage room 1    | Second            | C    | Door             | Wood         | Intact    | Gray  | 0.7                                | Negative |                      | 0.22                               |
| 313         | Storage room 1    | Second            | C    | Door frame       | Metal        | Poor      | Gray  | 0.7                                | Negative |                      | 0.21                               |
| 314         | Storage room 1    | Second            | C    | Door jamb        | Metal        | Intact    | Brown | 0.7                                | Negative |                      | 0.09                               |
| 315         | Storage room 1    | Second            | C    | Wall             | Plaster      | Intact    | Gray  | 0.7                                | Negative |                      | 0.22                               |
| 316         | Storage room 1    | Second            | A    | Wall             | Plaster      | Intact    | Gray  | 0.7                                | Negative |                      | 0.22                               |
| 317         | Storage room 1    | Second            | B    | Wall             | Plaster      | Intact    | Gray  | 0.7                                | Negative |                      | 0.22                               |
| 318         | Storage room 1    | Second            | D    | Wall             | Plaster      | Intact    | Gray  | 0.7                                | Negative |                      | 0.22                               |
| 319         | Resource room     | Second            | B    | Wall             | Plaster      | Intact    | Red   | 0.7                                | Negative |                      | 0.03                               |
| 320         | Resource room     | Second            | A    | Wall             | Plaster      | Intact    | Red   | 0.7                                | Negative |                      | 0.03                               |
| 321         | Resource room     | Second            | C    | Wall             | Plaster      | Intact    | Red   | 0.7                                | Negative |                      | 0.03                               |
| 322         | Kitchen           | Second            | A    | Wall             | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.1                                |
| 323         | Kitchen           | Second            | B    | Wall             | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.1                                |
| 324         | Kitchen           | Second            | D    | Wall             | Plaster      | Intact    | White | 0.7                                | Negative |                      | 0.1                                |
| 325         | Kitchen           | Second            | A    | Door             | Metal        | Intact    | Green | 0.7                                | Negative |                      | 0.01                               |
| 326         | Kitchen           | Second            | A    | Door frame       | Metal        | Intact    | Green | 0.7                                | Negative |                      | 0.17                               |
| 327         | Kitchen           | Second            | A    | Door jamb        | Metal        | Intact    | Green | 0.7                                | Negative |                      | 0.18                               |
| 328         | Kitchen           | Second            | C    | Electrical panel | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.07                               |
| 329         | Kitchen           | Second            | 0    | Floor            | Concrete     | Intact    | Blue  | 0.7                                | Negative |                      | 0.01                               |
| 330         | Kitchen           | Second            | C    | Wall             | Ceramic tile | Intact    | White | 0.7                                | Positive | 115 SF               | 10.17                              |
| 331         | Kitchen           | Second            | C    | Door             | Wood         | Intact    | White | 0.7                                | Negative |                      | 0.13                               |
| 332         | Women's restroom  | Second            | C    | Wall             | Ceramic tile | Intact    | White | 0.7                                | Positive | 260 SF               | 12.42                              |
| 333         | Women's restroom  | Second            | 0    | Floor            | Ceramic tile | Intact    | White | 0.7                                | Negative |                      | 0.01                               |
| 334         | Women's restroom  | Second            | A    | Toilet           | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.09                               |
| 335         | Women's restroom  | Second            | A    | Sink             | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 336         | Kitchen           | Second            | C    | Wall             | Wood         | Intact    | Green | 0.7                                | Negative |                      | 0.11                               |
| 337         | Storage room 2    | Second            | B    | Column           | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.1                                |
| 338         | Storage room 2    | Second            | D    | Wall             | Metal        | Intact    | Beige | 0.7                                | Negative |                      | 0.12                               |
| 339         | Employee restroom | Second            | 0    | Floor            | Ceramic tile | Intact    | White | 0.7                                | Negative |                      | 0.03                               |
| 340         | Employee restroom | Second            | C    | Wall             | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.14                               |
| 341         | Employee restroom | Second            | D    | Sink             | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.04                               |
| 342         | Employee restroom | Second            | D    | Toilet           | Porcelain    | Intact    | White | 0.7                                | Negative |                      | 0.08                               |
| 343         | Employee restroom | Second            | C    | Door             | Wood         | Intact    | Green | 0.7                                | Negative |                      | 0.03                               |
| 344         | Employee restroom | Second            | C    | Door jamb        | Wood         | Intact    | Green | 0.7                                | Negative |                      | 0.18                               |
| 345         | Exterior ramp     | Exterior ramp     | B    | Railing          | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.06                               |
| 346         | Exterior ramp     | Exterior ramp     | B    | Railing          | Metal        | Intact    | Black | 0.7                                | Negative |                      | 0.37                               |
| 347         | Exterior ramp     | Exterior ramp     | 0    | Floor            | Concrete     | Intact    | Red   | 0.7                                | Negative |                      | 0.03                               |
| 348         | Exterior ramp     | Exterior ramp     | B    | Light fixture    | Metal        | Intact    | White | 0.7                                | Negative |                      | 0.05                               |
| 349         | Exterior ramp     | Exterior ramp     | D    | Railing          | Concrete     | Intact    | White | 0.7                                | Negative |                      | 0.08                               |
| 350         | Exterior ramp     | Exterior ramp     | C    | Wall             | Concrete     | Intact    | Beige | 0.7                                | Negative |                      | 0.12                               |
| 351         | Exterior ramp     | Exterior ramp     | C    | Light fixture    | Metal        | Intact    | Beige | 0.7                                | Negative |                      | 0.07                               |
| 352         | Exterior ramp     | Exterior ramp     | D    | Wall             | Metal        | Intact    | Beige | 0.7                                | Negative |                      | 0.08                               |
| 353         | Exterior ramp     | Exterior ramp     | B    | Gate             | Metal        | Intact    | Black | 0.7                                | Negative |                      | 0.04                               |
| 354         | Exterior ramp     | Exterior ramp     | A    | Fence post       | Metal        | Intact    | Black | 0.7                                | Negative |                      | 0.14                               |
| 355         | Exterior ramp     | Exterior ramp     | A    | Fence post       | Wood         | Intact    | Brown | 0.7                                | Negative |                      | 0.04                               |
| 356         | Exterior stairway | Exterior stairway | B    | Railing          | Metal        | Intact    | Black | 0.7                                | Negative |                      | 0.01                               |
| 357         | Exterior stairway | Exterior stairway | C    | Riser            | Ceramic tile | Intact    | Green | 0.7                                | Negative |                      | 0.04                               |
| 358         | Exterior stairway | Exterior stairway | 0    | Stairs           | Concrete     | Intact    | Pink  | 0.7                                | Negative |                      | 0.01                               |

Table 2 - XRF Readings for Lead Containing Substances

| Reading No.                              | Room                     | Floor                | Side     | Component           | Substrate       | Condition     | Color         | Action Level (mg/cm <sup>2</sup> ) | Results         | Approximate Quantity   | Lead Reading (mg/cm <sup>2</sup> ) |
|--|--------------------------|----------------------|----------|---------------------|-----------------|---------------|---------------|------------------------------------|-----------------|------------------------|------------------------------------|
| 359                                      | Exterior stairway        | Exterior stairway    | B        | Railing             | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.12                               |
| 360                                      | Exterior stairway        | Exterior stairway    | B        | Light fixture       | Plaster         | Intact        | White         | 0.7                                | Negative        |                        | 0.02                               |
| 361                                      | Exterior stairway        | Exterior stairway    | C        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.02                               |
| 362                                      | Exterior stairway        | Exterior stairway    | 0        | Stairs              | Concrete        | Intact        | Gray          | 0.7                                | Negative        |                        | 0.04                               |
| 363                                      | Exterior stairway        | Exterior stairway    | C        | Gate                | Metal           | Poor          | Black         | 0.7                                | Negative        |                        | 0.04                               |
| 364                                      | Exterior stairway        | Exterior stairway    | B        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.04                               |
| 365                                      | Exterior stairway        | Exterior stairway    | B        | Flashing            | Metal           | Intact        | Beige         | 0.7                                | Negative        |                        | 0.03                               |
| 366                                      | Exterior stairway        | Exterior stairway    | A        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.05                               |
| 367                                      | Exterior                 | Exterior             | D        | Wall                | Concrete        | Intact        | Pink          | 0.7                                | Negative        |                        | 0.03                               |
| 368                                      | Exterior                 | Exterior             | D        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.21                               |
| 369                                      | Exterior                 | Exterior             | D        | Window frame        | Metal           | Intact        | Green         | 0.7                                | Negative        |                        | 0.31                               |
| 370                                      | Exterior                 | Exterior             | D        | Awning support      | Metal           | Fair          | White         | 0.7                                | Negative        |                        | 0.01                               |
| 371                                      | Exterior                 | Exterior             | A        | Column              | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.09                               |
| 372                                      | Exterior                 | Exterior             | D        | Wall                | Concrete        | Intact        | Pink          | 0.7                                | Negative        |                        | 0.06                               |
| 373                                      | Exterior                 | Exterior             | D        | Wall                | Concrete        | Intact        | Gray          | 0.7                                | Negative        |                        | 0.02                               |
| 374                                      | Exterior                 | Exterior             | D        | Door                | Wood            | Fair          | Gray          | 0.7                                | Negative        |                        | 0.04                               |
| 375                                      | Exterior                 | Exterior             | D        | Vent                | Metal           | Intact        | Gray          | 0.7                                | Negative        |                        | 0.01                               |
| 376                                      | Exterior                 | Exterior             | D        | Drinking fountain   | Porcelain       | Intact        | White         | 0.7                                | Negative        |                        | 0.01                               |
| 377                                      | Exterior                 | Exterior             | A        | Door                | Wood            | Intact        | White         | 0.7                                | Negative        |                        | 0.1                                |
| 378                                      | Exterior                 | Exterior             | A        | Vent                | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.02                               |
| 379                                      | Exterior ramp            | Exterior ramp        | D        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.06                               |
| 380                                      | Exterior ramp            | Exterior ramp        | A        | Wall sign           | Concrete        | Intact        | Blue          | 0.7                                | Negative        |                        | 0.02                               |
| 381                                      | Exterior ramp            | Exterior ramp        | A        | Wall sign           | Metal           | Intact        | Blue          | 0.7                                | Negative        |                        | 0.11                               |
| <b>382</b>                               | <b>Exterior ramp</b>     | <b>Exterior ramp</b> | <b>A</b> | <b>Wall sign</b>    | <b>Concrete</b> | <b>Fair</b>   | <b>Red</b>    | <b>0.7</b>                         | <b>Positive</b> | <b>2 SF</b>            | <b>1.9</b>                         |
| <b>383</b>                               | <b>Exterior ramp</b>     | <b>Exterior ramp</b> | <b>A</b> | <b>Wall sign</b>    | <b>Concrete</b> | <b>Intact</b> | <b>Green</b>  | <b>0.7</b>                         | <b>Positive</b> | <b>Same as 382</b>     | <b>1.78</b>                        |
| 384                                      | Exterior ramp            | Exterior ramp        | A        | Wall sign           | Concrete        | Intact        | Black         | 0.7                                | Negative        |                        | 0.17                               |
| <b>385</b>                               | <b>Exterior ramp</b>     | <b>Exterior ramp</b> | <b>A</b> | <b>Wall sign</b>    | <b>Concrete</b> | <b>Fair</b>   | <b>Yellow</b> | <b>0.7</b>                         | <b>Positive</b> | <b>Same as 382</b>     | <b>4.92</b>                        |
| 386                                      | Exterior ramp            | Exterior ramp        | A        | Wall sign           | Concrete        | Intact        | Blue          | 0.7                                | Negative        |                        | 0.13                               |
| 387                                      | Exterior ramp            | Exterior ramp        | A        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.06                               |
| 388                                      | Exterior ramp            | Exterior ramp        | B        | Wall                | Concrete        | Poor          | White         | 0.7                                | Negative        |                        | 0.04                               |
| 389                                      | Exterior ramp            | Exterior ramp        | B        | Pipe insulation     | Foam            | Fair          | White         | 0.7                                | Negative        |                        | 0.02                               |
| 390                                      | Exterior ramp            | Exterior ramp        | B        | Door                | Wood            | Intact        | White         | 0.7                                | Negative        |                        | 0.13                               |
| 391                                      | Exterior ramp            | Exterior ramp        | B        | Door                | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.03                               |
| 392                                      | Exterior ramp            | Exterior ramp        | A        | Vent                | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.01                               |
| 393                                      | Room 1 under ramp        | First                | D        | Wall                | Concrete        | Poor          | Tan           | 0.7                                | Negative        |                        | 0.14                               |
| 394                                      | Room 2 under ramp        | First                | B        | Wall                | Concrete        | Fair          | Tan           | 0.7                                | Negative        |                        | 0.11                               |
| <b>395</b>                               | <b>Room 2 under ramp</b> | <b>First</b>         | <b>D</b> | <b>Pipe</b>         | <b>Metal</b>    | <b>Intact</b> | <b>Red</b>    | <b>0.7</b>                         | <b>Positive</b> | <b>40 LF</b>           | <b>1.58</b>                        |
| <b>396</b>                               | <b>Room 2 under ramp</b> | <b>First</b>         | <b>B</b> | <b>Pipe valve</b>   | <b>Metal</b>    | <b>Intact</b> | <b>Yellow</b> | <b>0.7</b>                         | <b>Positive</b> | <b>3 total / 3 LF</b>  | <b>1.62</b>                        |
| <b>397</b>                               | <b>Room 2 under ramp</b> | <b>First</b>         | <b>B</b> | <b>Pipe valve</b>   | <b>Metal</b>    | <b>Intact</b> | <b>Orange</b> | <b>0.7</b>                         | <b>Positive</b> | <b>1 LF</b>            | <b>3.05</b>                        |
| 398                                      | Room 2 under ramp        | First                | B        | Pipe                | Metal           | Intact        | Green         | 0.7                                | Negative        |                        | 0.06                               |
| 399                                      | Room 2 under ramp        | First                | B        | Pipe                | Metal           | Intact        | Gray          | 0.7                                | Negative        |                        | 0.03                               |
| 400                                      | Room 2 under ramp        | First                | D        | Door                | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.01                               |
| 401                                      | Room 2 under ramp        | First                | A        | Wall                | Concrete        | Intact        | Tan           | 0.7                                | Negative        |                        | 0.14                               |
| 402                                      | Room 2 under ramp        | First                | B        | Wall                | Concrete        | Intact        | Tan           | 0.7                                | Negative        |                        | 0.14                               |
| 403                                      | Room 2 under ramp        | First                | C        | Wall                | Concrete        | Intact        | Tan           | 0.7                                | Negative        |                        | 0.14                               |
| 404                                      | Room 2 under ramp        | First                | C        | Pipe                | Metal           | Poor          | Tan           | 0.7                                | Negative        |                        | 0.07                               |
| <b>Locker Rooms and Offices Building</b> |                          |                      |          |                     |                 |               |               |                                    |                 |                        |                                    |
| 405                                      | Exterior                 | Exterior             | D        | Planter             | Concrete        | Poor          | White         | 0.7                                | Negative        |                        | 0.02                               |
| 406                                      | Exterior                 | Exterior             | D        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.03                               |
| 407                                      | Exterior                 | Exterior             | D        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.02                               |
| 408                                      | Exterior                 | Exterior             | D        | Vent                | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.19                               |
| 409                                      | Exterior                 | Exterior             | C        | Wall                | Plaster         | Intact        | White         | 0.7                                | Negative        |                        | 0.02                               |
| 410                                      | Exterior                 | Exterior             | D        | Railing             | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.01                               |
| 411                                      | Exterior                 | Exterior             | D        | Railing             | Metal           | Intact        | Black         | 0.7                                | Negative        |                        | 0.02                               |
| 412                                      | Exterior                 | Exterior             | D        | Bicycle rack        | Metal           | Intact        | Blue-green    | 0.7                                | Negative        |                        | 0.03                               |
| 413                                      | Exterior                 | Exterior             | D        | Door                | Metal           | Intact        | Black         | 0.7                                | Negative        |                        | 0.03                               |
| 414                                      | Exterior                 | Exterior             | D        | Door frame          | Metal           | Intact        | Black         | 0.7                                | Negative        |                        | 0.01                               |
| 415                                      | Exterior                 | Exterior             | D        | Door jamb           | Metal           | Intact        | Black         | 0.7                                | Negative        |                        | 0.03                               |
| 416                                      | Exterior                 | Exterior             | B        | Wall                | Concrete        | Fair          | White         | 0.7                                | Negative        |                        | 0.07                               |
| 417                                      | Exterior                 | Exterior             | B        | Pipe                | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.03                               |
| 418                                      | Exterior                 | Exterior             | B        | Door                | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.03                               |
| 419                                      | Exterior                 | Exterior             | B        | Door frame          | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.13                               |
| 420                                      | Exterior                 | Exterior             | B        | Pipe support        | Metal           | Intact        | White         | 0.7                                | Negative        |                        | 0.05                               |
| <b>421</b>                               | <b>Exterior</b>          | <b>Exterior</b>      | <b>C</b> | <b>Wall</b>         | <b>Metal</b>    | <b>Intact</b> | <b>White</b>  | <b>0.7</b>                         | <b>Positive</b> | <b>60 SF</b>           | <b>4.39</b>                        |
| <b>422</b>                               | <b>Exterior</b>          | <b>Exterior</b>      | <b>C</b> | <b>Sliding door</b> | <b>Metal</b>    | <b>Intact</b> | <b>White</b>  | <b>0.7</b>                         | <b>Positive</b> | <b>2 total / 60 SF</b> | <b>6.13</b>                        |
| 423                                      | Exterior                 | Exterior             | C        | Sliding door frame  | Metal           | Intact        | Black         | 0.7                                | Negative        |                        | 0.03                               |
| <b>424</b>                               | <b>Exterior</b>          | <b>Exterior</b>      | <b>C</b> | <b>Wall</b>         | <b>Metal</b>    | <b>Intact</b> | <b>White</b>  | <b>0.7</b>                         | <b>Positive</b> | <b>Same as 421</b>     | <b>5.1</b>                         |
| 425                                      | Exterior                 | Exterior             | C        | Wall frame          | Metal           | Intact        | Black         | 0.7                                | Negative        |                        | 0.05                               |
| 426                                      | Exterior                 | Exterior             | D        | Wall                | Concrete        | Intact        | White         | 0.7                                | Negative        |                        | 0.09                               |
| <b>427</b>                               | <b>Exterior</b>          | <b>Exterior</b>      | <b>A</b> | <b>Sliding door</b> | <b>Metal</b>    | <b>Intact</b> | <b>White</b>  | <b>0.7</b>                         | <b>Positive</b> | <b>Same as 422</b>     | <b>3.35</b>                        |
| <b>428</b>                               | <b>Exterior</b>          | <b>Exterior</b>      | <b>A</b> | <b>Wall</b>         | <b>Metal</b>    | <b>Intact</b> | <b>White</b>  | <b>0.7</b>                         | <b>Positive</b> | <b>Same as 421</b>     | <b>4.48</b>                        |
| 429                                      | Exterior                 | Exterior             | A        | Wall frame          | Metal           | Intact        | Black         | 0.7                                | Negative        |                        | 0.02                               |

Table 2 - XRF Readings for Lead Containing Substances

| Reading No. | Room                          | Floor    | Side | Component          | Substrate     | Condition | Color        | Action Level (mg/cm <sup>2</sup> ) | Results  | Approximate Quantity | Lead Reading (mg/cm <sup>2</sup> ) |
|-------------|-------------------------------|----------|------|--------------------|---------------|-----------|--------------|------------------------------------|----------|----------------------|------------------------------------|
| 430         | Exterior                      | Exterior | A    | Sliding door frame | Metal         | Intact    | Black        | 0.7                                | Negative |                      | 0.01                               |
| 431         | Exterior                      | Exterior | B    | Column             | Concrete      | Intact    | White        | 0.7                                | Negative |                      | 0.04                               |
| 432         | Exterior                      | Exterior | 0    | Stairs             | Concrete      | Fair      | Yellow       | 0.7                                | Negative |                      | 0.02                               |
| 433         | Exterior                      | Exterior | 0    | Stairs             | Concrete      | Poor      | Pink         | 0.7                                | Negative |                      | 0.43                               |
| 434         | Roof                          | Roof     | B    | Parapet wall       | Concrete      | Fair      | White        | 0.7                                | Positive | 2,500 SF             | 2.99                               |
| 435         | Roof                          | Roof     | D    | Vent trim          | Wood          | Poor      | Beige        | 0.7                                | Negative |                      | 0.13                               |
| 436         | Roof                          | Roof     | A    | Vent wall          | Concrete      | Intact    | Beige        | 0.7                                | Negative |                      | 0.13                               |
| 437         | Roof                          | Roof     | A    | Vent               | Metal         | Intact    | Beige        | 0.7                                | Negative |                      | 0.16                               |
| 438         | Roof                          | Roof     | A    | Vent               | Metal         | Intact    | White        | 0.7                                | Negative |                      | 0.26                               |
| 439         | Roof                          | Roof     | A    | Vent               | Metal         | Intact    | Silver       | 0.7                                | Negative |                      | 0.03                               |
| 440         | Roof                          | Roof     | A    | Pipe               | Metal         | Intact    | White        | 0.7                                | Negative |                      | 0.05                               |
| 441         | Roof                          | Roof     | C    | Pipe               | Plastic       | Intact    | White        | 0.7                                | Negative |                      | 0.03                               |
| 442         | Roof                          | Roof     | A    | Vent               | Metal         | Intact    | Pink         | 0.7                                | Negative |                      | 0.07                               |
| 443         | Roof                          | Roof     | D    | Wall               | Concrete      | Poor      | White        | 0.7                                | Negative |                      | 0.03                               |
| 444         | Roof                          | Roof     | 0    | Overhang           | Concrete      | Poor      | White        | 0.7                                | Negative |                      | 0.04                               |
| 445         | Roof                          | Roof     | D    | Trim               | Concrete      | Intact    | White        | 0.7                                | Negative |                      | 0.03                               |
| 446         | Roof                          | Roof     | D    | Column             | Concrete      | Intact    | White        | 0.7                                | Negative |                      | 0.05                               |
| 447         | Roof                          | Roof     | D    | Column             | Concrete      | Intact    | White        | 0.7                                | Negative |                      | 0.04                               |
| 448         | Women's locker room           | First    | C    | Wall               | Ceramic tile  | Intact    | White        | 0.7                                | Positive | 4,150 SF             | 13.84                              |
| 449         | Women's locker room           | First    | B    | Wall               | Ceramic tile  | Intact    | Brown        | 0.7                                | Positive | 3,000 SF             | 8.49                               |
| 450         | Women's locker room           | First    | B    | Wall               | Ceramic tile  | Intact    | Brown        | 0.7                                | Positive | Same as 449          | 10                                 |
| 451         | Women's locker room           | First    | 0    | Floor              | Ceramic tile  | Intact    | Tan          | 0.7                                | Negative |                      | 0.02                               |
| 452         | Women's locker room           | First    | B    | Wall               | Ceramic tile  | Intact    | Yellow       | 0.7                                | Positive | 850 SF               | 13.03                              |
| 453         | Women's locker room           | First    | 0    | Floor              | Ceramic tile  | Intact    | Yellow       | 0.7                                | Negative |                      | 0.01                               |
| 454         | Women's locker room           | First    | D    | Wall               | Ceramic tile  | Intact    | Pink         | 0.7                                | Negative |                      | 0.01                               |
| 455         | Women's locker room           | First    | C    | Wall               | Ceramic tile  | Intact    | Tan w/ white | 0.7                                | Positive | 900 SF               | 4.97                               |
| 456         | Women's locker room           | First    | A    | Wall               | Plaster       | Intact    | Orange       | 0.7                                | Negative |                      | 0.02                               |
| 457         | Women's locker room           | First    | A    | Trim               | Wood          | Intact    | Orange       | 0.7                                | Negative |                      | 0.1                                |
| 458         | Women's locker room           | First    | A    | Door frame         | Metal         | Intact    | White        | 0.7                                | Negative |                      | 0.09                               |
| 459         | Women's locker room           | First    | B    | Lockers            | Metal         | Intact    | Blue         | 0.7                                | Negative |                      | 0.41                               |
| 460         | Women's locker room           | First    | 0    | Floor              | Concrete      | Intact    | Pink         | 0.7                                | Negative |                      | 0.02                               |
| 461         | Women's locker room           | First    | 0    | Floor              | Concrete      | Intact    | Green        | 0.7                                | Negative |                      | 0.01                               |
| 462         | Women's locker room           | First    | 0    | Floor              | Concrete      | Intact    | Blue         | 0.7                                | Negative |                      | 0.04                               |
| 463         | Women's locker room           | First    | 0    | Overhang           | Plaster       | Intact    | White        | 0.7                                | Negative |                      | 0.11                               |
| 464         | Women's locker room           | First    | 0    | Vent               | Metal         | Intact    | White        | 0.7                                | Negative |                      | 0.13                               |
| 465         | Women's locker room           | First    | 0    | Bench              | Plastic       | Intact    | Yellow       | 0.7                                | Positive | 6 total              | 0.88                               |
| 466         | Women's locker room           | First    | B    | Wall               | Wood          | Intact    | Blue         | 0.7                                | Negative |                      | 0.02                               |
| 467         | Women's locker room           | First    | C    | Bench              | Plastic       | Intact    | Beige        | 0.7                                | Negative |                      | 0.08                               |
| 468         | Women's locker room           | First    | C    | Stall              | Metal         | Intact    | Beige        | 0.7                                | Negative |                      | 0.05                               |
| 469         | Women's locker room           | First    | B    | Door               | Metal         | Intact    | White        | 0.7                                | Negative |                      | 0.03                               |
| 470         | Women's locker room           | First    | B    | Door frame         | Metal         | Intact    | White        | 0.7                                | Negative |                      | 0.08                               |
| 471         | Women's locker room           | First    | B    | Sink               | Porcelain     | Intact    | White        | 0.7                                | Negative |                      | 0.05                               |
| 472         | Women's locker room           | First    | B    | Toilet             | Porcelain     | Intact    | White        | 0.7                                | Negative |                      | 0.03                               |
| 473         | Women's locker room           | First    | 0    | Ceiling            | Acoustic tile | Intact    | White        | 0.7                                | Negative |                      | 0.01                               |
| 474         | Women's locker room           | First    | 0    | Ceiling            | Metal         | Intact    | White        | 0.7                                | Negative |                      | 0.15                               |
| 475         | Women's locker room           | First    | B    | Roll-up door       | Metal         | Intact    | Tan          | 0.7                                | Negative |                      | 0.03                               |
| 476         | Women's executive locker room | First    | C    | Wall               | Ceramic tile  | Intact    | Cream        | 0.7                                | Positive | 720 SF               | 10.79                              |
| 477         | Women's executive locker room | First    | B    | Wall               | Ceramic tile  | Intact    | Cream        | 0.7                                | Positive | Same as 476          | 10.79                              |
| 478         | Women's executive locker room | First    | 0    | Floor              | Ceramic tile  | Intact    | White        | 0.7                                | Negative |                      | 0.01                               |
| 479         | Women's executive locker room | First    | D    | Wall               | Ceramic tile  | Intact    | Brown        | 0.7                                | Positive | Same as 449          | 10.27                              |
| 480         | Women's executive locker room | First    | C    | Wall               | Ceramic tile  | Intact    | Yellow       | 0.7                                | Positive | Same as 452          | 8.85                               |
| 481         | Women's executive locker room | First    | D    | Wall               | Ceramic tile  | Intact    | White        | 0.7                                | Positive | Same as 448          | 12.06                              |
| 482         | Women's executive locker room | First    | 0    | Locker             | Metal         | Intact    | Blue         | 0.7                                | Negative |                      | 0.05                               |
| 483         | Women's executive locker room | First    | 0    | Ceiling            | Plaster       | Intact    | White        | 0.7                                | Negative |                      | 0.11                               |
| 484         | Women's executive locker room | First    | 0    | Ceiling vent       | Metal         | Intact    | White        | 0.7                                | Negative |                      | 0.07                               |
| 485         | Women's executive locker room | First    | D    | Wall               | Concrete      | Intact    | White        | 0.7                                | Negative |                      | 0.36                               |
| 486         | Women's executive locker room | First    | A    | Wall               | Concrete      | Intact    | White        | 0.7                                | Negative |                      | 0.24                               |
| 487         | Women's executive locker room | First    | A    | Column             | Concrete      | Intact    | White        | 0.7                                | Negative |                      | 0.18                               |
| 488         | Men's locker room             | First    | A    | Wall               | Ceramic tile  | Intact    | White        | 0.7                                | Positive | Same as 448          | 9.07                               |
| 489         | Men's locker room             | First    | B    | Wall               | Ceramic tile  | Intact    | Brown        | 0.7                                | Positive | Same as 449          | 8.56                               |
| 490         | Men's locker room             | First    | A    | Wall               | Ceramic tile  | Intact    | Gray         | 0.7                                | Positive | 450 SF               | 17.45                              |
| 491         | Men's locker room             | First    | B    | Wall               | Ceramic tile  | Intact    | Brown        | 0.7                                | Positive | Same as 449          | 8.56                               |
| 498         | Men's locker room             | First    | D    | Wall               | Ceramic tile  | Intact    | White        | 0.7                                | Positive | Same as 448          | 9.07                               |
| 493         | Men's locker room             | First    | 0    | Floor              | Ceramic tile  | Intact    | White        | 0.7                                | Negative |                      | 0.03                               |
| 494         | Men's locker room             | First    | B    | Urinal             | Porcelain     | Intact    | White        | 0.7                                | Negative |                      | 0.04                               |
| 495         | Men's locker room             | First    | D    | Sink               | Porcelain     | Intact    | White        | 0.7                                | Negative |                      | 0.01                               |
| 496         | Men's locker room             | First    | D    | Toilet             | Porcelain     | Intact    | White        | 0.7                                | Negative |                      | 0.04                               |
| 497         | Men's locker room             | First    | D    | Stall              | Metal         | Intact    | Beige        | 0.7                                | Negative |                      | 0.04                               |
| 498         | Men's locker room             | First    | B    | Locker             | Metal         | Intact    | Blue         | 0.7                                | Negative |                      | 0.04                               |
| 499         | Men's locker room             | First    | 0    | Bench              | Plastic       | Intact    | Pink         | 0.7                                | Negative |                      | 0.07                               |
| 500         | Men's executive locker room   | First    | B    | Wall               | Ceramic tile  | Intact    | Brown        | 0.7                                | Positive | Same as 449          | 5.72                               |
| 501         | Men's executive locker room   | First    | B    | Wall               | Ceramic tile  | Intact    | Tan w/ white | 0.7                                | Positive | Same as 455          | 9.76                               |

**Table 2 - XRF Readings for Lead Containing Substances**

| Reading No. | Room                         | Floor    | Side | Component         | Substrate    | Condition | Color  | Action Level (mg/cm <sup>2</sup> ) | Results  | Approximate Quantity | Lead Reading (mg/cm <sup>2</sup> ) |
|-------------|------------------------------|----------|------|-------------------|--------------|-----------|--------|------------------------------------|----------|----------------------|------------------------------------|
| 502         | Men's executive locker room  | First    | A    | Wall              | Ceramic tile | Intact    | Yellow | 0.7                                | Positive | Same as 452          | 9.4                                |
| 503         | Men's executive locker room  | First    | B    | Door              | Wood         | Poor      | White  | 0.7                                | Negative |                      | 0.01                               |
| 504         | Men's executive locker room  | First    | B    | Door frame        | Wood         | Poor      | White  | 0.7                                | Negative |                      | 0.02                               |
| 505         | Men's executive locker room  | First    | B    | Door jamb         | Metal        | Poor      | White  | 0.7                                | Negative |                      | 0.03                               |
| 506         | Men's executive locker room  | First    | 0    | Floor             | Ceramic tile | Intact    | White  | 0.7                                | Negative |                      | 0.09                               |
| 507         | Men's executive locker room  | First    | 0    | Ceiling           | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.1                                |
| 508         | Men's executive locker room  | First    | D    | Wall              | Concrete     | Intact    | White  | 0.7                                | Negative |                      | 0.47                               |
| 509         | Men's executive locker room  | First    | C    | Wall              | Concrete     | Intact    | White  | 0.7                                | Negative |                      | 0.19                               |
| 510         | Men's executive locker room  | First    | C    | Column            | Concrete     | Intact    | White  | 0.7                                | Negative |                      | 0.1                                |
| 511         | Men's executive locker room  | First    | C    | Stall             | Metal        | Intact    | White  | 0.7                                | Negative |                      | 0.06                               |
| 512         | Men's executive locker room  | First    | A    | Locker            | Metal        | Intact    | Blue   | 0.7                                | Negative |                      | 0.03                               |
| 513         | Men's executive locker room  | First    | A    | Wash basin        | Concrete     | Intact    | White  | 0.7                                | Negative |                      | 0.04                               |
| 514         | Entry Lobby                  | First    | D    | Wall              | Concrete     | Intact    | White  | 0.7                                | Negative |                      | 0.07                               |
| 515         | Entry Lobby                  | First    | C    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.3                                |
| 516         | Entry Lobby                  | First    | B    | Reception cubicle | Wood         | Intact    | Blue   | 0.7                                | Negative |                      | 0.05                               |
| 517         | Entry Lobby                  | First    | B    | Door              | Wood         | Intact    | Blue   | 0.7                                | Negative |                      | 0.03                               |
| 518         | Entry Lobby                  | First    | B    | Door frame        | Wood         | Intact    | Blue   | 0.7                                | Negative |                      | 0.13                               |
| 519         | Entry Lobby                  | First    | B    | Door jamb         | Wood         | Intact    | Blue   | 0.7                                | Negative |                      | 0.01                               |
| 520         | Weight room                  | First    | D    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.15                               |
| 521         | Weight room                  | First    | D    | Wall              | Plaster      | Intact    | Blue   | 0.7                                | Negative |                      | 0.16                               |
| 522         | Weight room                  | First    | C    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.15                               |
| 523         | Weight room                  | First    | C    | Wall              | Plaster      | Intact    | Blue   | 0.7                                | Negative |                      | 0.15                               |
| 524         | Weight room                  | First    | B    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.15                               |
| 525         | Weight room                  | First    | B    | Wall              | Plaster      | Intact    | Blue   | 0.7                                | Negative |                      | 0.15                               |
| 526         | Weight room                  | First    | A    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.15                               |
| 527         | Weight room                  | First    | A    | Wall              | Plaster      | Intact    | Blue   | 0.7                                | Negative |                      | 0.15                               |
| 528         | Weight room                  | First    | 0    | Ceiling           | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.08                               |
| 529         | Weight room                  | First    | 0    | Ceiling hatch     | Metal        | Intact    | White  | 0.7                                | Negative |                      | 0.04                               |
| 530         | Lobby                        | First    | B    | Door jamb         | Metal        | Intact    | Blue   | 0.7                                | Negative |                      | 0.06                               |
| 531         | Lobby                        | First    | B    | Door frame        | Wood         | Intact    | White  | 0.7                                | Negative |                      | 0.09                               |
| 532         | Lobby                        | First    | C    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.13                               |
| 533         | Lobby                        | First    | A    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.13                               |
| 534         | Lobby                        | First    | B    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.13                               |
| 535         | Lobby                        | First    | 0    | Ceiling           | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.06                               |
| 536         | Lobby                        | First    | A    | Electrical panel  | Metal        | Intact    | White  | 0.7                                | Negative |                      | 0.09                               |
| 537         | Hallway                      | First    | C    | Door              | Metal        | Intact    | Tan    | 0.7                                | Negative |                      | 0.13                               |
| 538         | Hallway                      | First    | A    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.13                               |
| 539         | Hallway                      | First    | C    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.13                               |
| 540         | Hallway                      | First    | 0    | Ceiling vent      | Metal        | Intact    | White  | 0.7                                | Negative |                      | 0.05                               |
| 541         | Men's employee locker room   | First    | D    | Wall              | Ceramic tile | Intact    | Brown  | 0.7                                | Positive | Same as 449          | 10                                 |
| 542         | Men's employee locker room   | First    | A    | Wall              | Ceramic tile | Intact    | Brown  | 0.7                                | Positive | Same as 449          | 10                                 |
| 543         | Men's employee locker room   | First    | C    | Wall              | Ceramic tile | Intact    | Brown  | 0.7                                | Positive | Same as 449          | 10                                 |
| 544         | Men's employee locker room   | First    | 0    | Floor             | Ceramic tile | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 545         | Men's employee locker room   | First    | C    | Locker            | Metal        | Intact    | Blue   | 0.7                                | Negative |                      | 0.03                               |
| 546         | Men's employee locker room   | First    | B    | Wall              | Metal        | Intact    | White  | 0.7                                | Negative |                      | 0.11                               |
| 547         | Men's employee locker room   | First    | B    | Electrical panel  | Metal        | Intact    | White  | 0.7                                | Negative |                      | 0.06                               |
| 548         | Men's employee locker room   | First    | A    | Sink              | Porcelain    | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 549         | Women's employee locker room | First    | 0    | Floor             | Ceramic tile | Intact    | White  | 0.7                                | Negative |                      | 0.02                               |
| 550         | Women's employee locker room | First    | A    | Wall              | Ceramic tile | Intact    | White  | 0.7                                | Positive | Same as 448          | 9.64                               |
| 551         | Women's employee locker room | First    | C    | Wall              | Ceramic tile | Intact    | White  | 0.7                                | Positive | Same as 448          | 9.64                               |
| 552         | Women's employee locker room | First    | D    | Wall              | Ceramic tile | Intact    | White  | 0.7                                | Positive | Same as 448          | 9.64                               |
| 553         | Women's employee locker room | First    | C    | Bench             | Plastic      | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 554         | Exterior                     | Exterior | B    | Wall mural        | Wood         | Intact    | Blue   | 0.7                                | Negative |                      | 0.02                               |
| 555         | Exterior                     | Exterior | B    | Wall mural        | Wood         | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 556         | Exterior                     | Exterior | B    | Wall mural        | Wood         | Intact    | Red    | 0.7                                | Negative |                      | 0.15                               |
| 557         | Office                       | First    | A    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 558         | Office                       | First    | B    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 559         | Office                       | First    | C    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 560         | Office                       | First    | D    | Wall              | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 561         | Office                       | First    | 0    | Ceiling           | Plaster      | Intact    | White  | 0.7                                | Negative |                      | 0.01                               |
| 562         | Mechanical room              | First    | B    | Tank              | Metal        | Intact    | Tan    | 0.7                                | Negative |                      | 0.21                               |
| 563         | Mechanical room              | First    | A    | Pipe              | Metal        | Intact    | Tan    | 0.7                                | Negative |                      | 0.22                               |
| 564         | Mechanical room              | First    | A    | Wall              | Concrete     | Intact    | Tan    | 0.7                                | Negative |                      | 0.2                                |
| 565         | Mechanical room              | First    | D    | Wall              | Concrete     | Intact    | Tan    | 0.7                                | Negative |                      | 0.26                               |
| 566         | Mechanical room              | First    | D    | Air duct          | Metal        | Intact    | Tan    | 0.7                                | Negative |                      | 0.17                               |
| 567         | Mechanical room              | First    | C    | Wall              | Concrete     | Intact    | Tan    | 0.7                                | Negative |                      | 0.19                               |
| 568         | Mechanical room              | First    | B    | Wall              | Concrete     | Intact    | Tan    | 0.7                                | Negative |                      | 0.19                               |
| 569         | Mechanical room              | First    | 0    | Floor             | Concrete     | Intact    | Green  | 0.7                                | Negative |                      | 0.02                               |
| 570         | Electrical room              | First    | 0    | Floor             | Concrete     | Intact    | Green  | 0.7                                | Negative |                      | 0.03                               |
| 571         | Electrical room              | First    | D    | Wall              | Concrete     | Intact    | Blue   | 0.7                                | Negative |                      | 0.16                               |
| 572         | Electrical room              | First    | C    | Pipe              | Metal        | Intact    | Blue   | 0.7                                | Negative |                      | 0.11                               |
| 573         | Electrical room              | First    | 0    | Ceiling           | Plaster      | Intact    | Blue   | 0.7                                | Negative |                      | 0.11                               |

**Table 2 - XRF Readings for Lead Containing Substances**

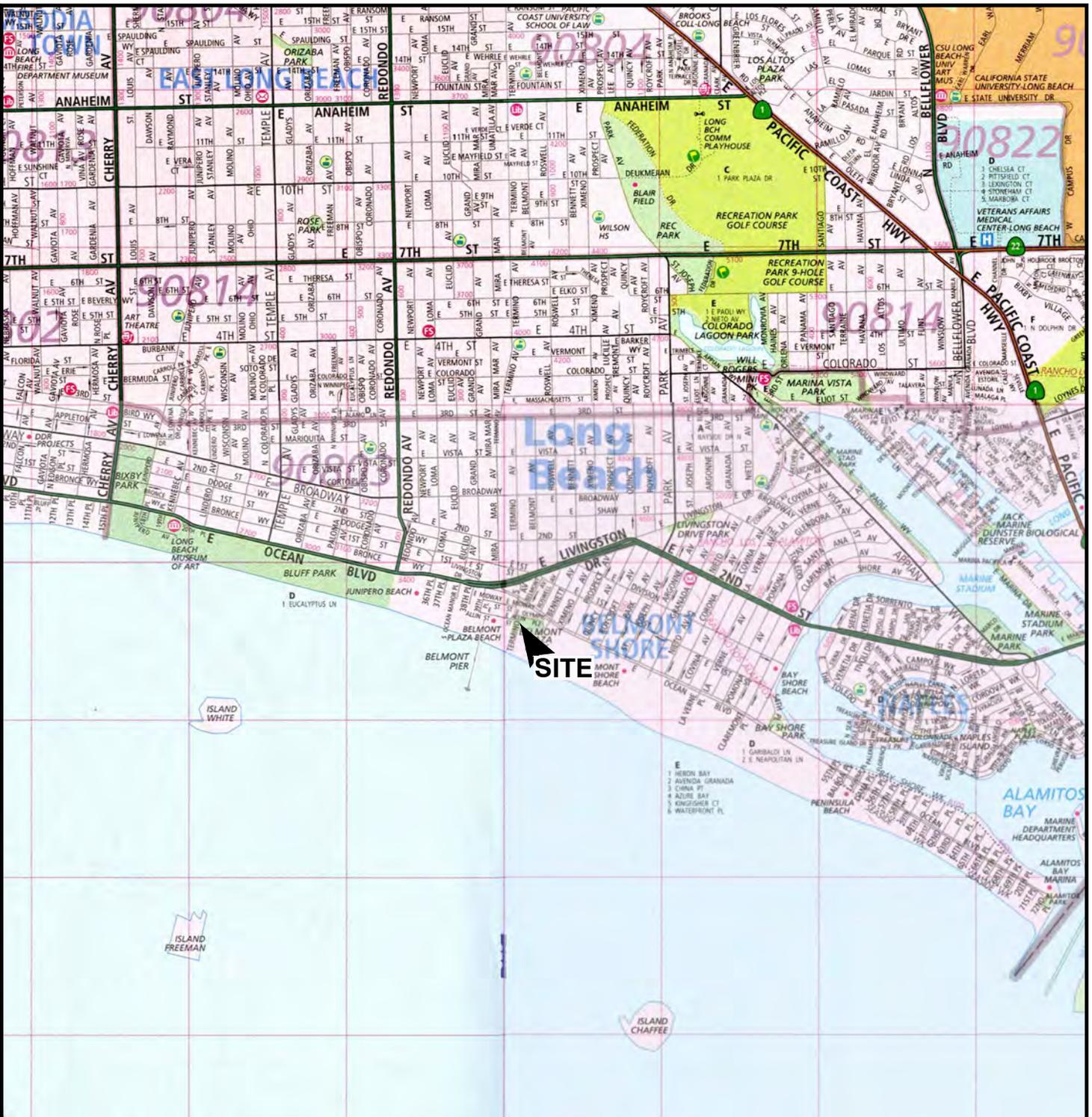
| Reading No.          | Room              | Floor           | Side     | Component         | Substrate           | Condition     | Color       | Action Level (mg/cm <sup>2</sup> ) | Results         | Approximate Quantity   | Lead Reading (mg/cm <sup>2</sup> ) |
|----------------------|-------------------|-----------------|----------|-------------------|---------------------|---------------|-------------|------------------------------------|-----------------|------------------------|------------------------------------|
| 574                  | Electrical room   | First           | D        | Wall              | Plaster             | Intact        | Tan         | 0.7                                | Negative        |                        | 0.14                               |
| 575                  | Electrical room   | First           | A        | Wall              | Plaster             | Intact        | Blue        | 0.7                                | Negative        |                        | 0.14                               |
| 576                  | Electrical room   | First           | B        | Wall              | Plaster             | Intact        | Blue        | 0.7                                | Negative        |                        | 0.14                               |
| 577                  | Electrical room   | First           | C        | Electrical panel  | Metal               | Intact        | Blue        | 0.7                                | Negative        |                        | 0.01                               |
| 578                  | Electrical room   | First           | C        | Wall              | Plaster             | Intact        | Blue        | 0.7                                | Negative        |                        | 0.14                               |
| <b>Old Pool Area</b> |                   |                 |          |                   |                     |               |             |                                    |                 |                        |                                    |
| 579                  | Chemical building | First           | B        | Wall              | Metal               | Intact        | Blue        | 0.7                                | Negative        |                        | 0.04                               |
| 580                  | Chemical building | First           | B        | Door              | Wood                | Poor          | Blue        | 0.7                                | Negative        |                        | 0.03                               |
| 581                  | Chemical building | First           | B        | Door frame        | Metal               | Poor          | Blue        | 0.7                                | Negative        |                        | 0.2                                |
| 582                  | Chemical building | First           | B        | Door jamb         | Metal               | Poor          | Blue        | 0.7                                | Negative        |                        | 0.2                                |
| 583                  | Chemical building | First           | C        | Wall              | Concrete            | Intact        | White       | 0.7                                | Negative        |                        | 0.06                               |
| 584                  | Chemical building | First           | A        | Wall              | Concrete            | Intact        | White       | 0.7                                | Negative        |                        | 0.06                               |
| 585                  | Chemical building | First           | D        | Wall              | Concrete            | Intact        | White       | 0.7                                | Negative        |                        | 0.06                               |
| 586                  | Chemical building | First           | C        | Electrical panel  | Metal               | Intact        | Blue        | 0.7                                | Negative        |                        | 0.04                               |
| 587                  | Chemical building | First           | C        | Pipe              | Metal               | Intact        | Blue        | 0.7                                | Negative        |                        | 0.08                               |
| 588                  | Chemical building | First           | 0        | Ceiling           | Plaster             | Intact        | Blue        | 0.7                                | Negative        |                        | 0.03                               |
| 589                  | Chemical building | First           | C        | Pipe              | Metal               | Poor          | Green       | 0.7                                | Negative        |                        | 0.07                               |
| 590                  | Chemical building | First           | D        | Pipe              | Metal               | Intact        | Black       | 0.7                                | Negative        |                        | 0.08                               |
| 591                  | Chemical building | First           | A        | Ladder            | Metal               | Intact        | Black       | 0.7                                | Negative        |                        | 0.5                                |
| 592                  | Chemical building | First           | B        | Door vent         | Metal               | Intact        | Blue        | 0.7                                | Negative        |                        | 0.01                               |
| 593                  | Chemical building | First           | B        | Pipe              | Metal               | Intact        | Blue        | 0.7                                | Negative        |                        | 0.01                               |
| 594                  | Chemical building | First           | 0        | Ceiling           | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.23                               |
| 595                  | Chemical building | First           | 0        | Ceiling           | Plaster             | Intact        | White       | 0.7                                | Negative        |                        | 0.09                               |
| 596                  | Chemical building | Exterior        | B        | Flashing          | Metal               | Intact        | Blue        | 0.7                                | Negative        |                        | 0.16                               |
| 597                  | Chemical building | Roof            | C        | Parapet wall      | Concrete            | Poor          | White       | 0.7                                | Negative        |                        | 0.13                               |
| 598                  | Chemical building | Roof            | C        | Flashing          | Metal               | Poor          | White       | 0.7                                | Negative        |                        | 0.11                               |
| 599                  | Chemical building | Exterior        | A        | Wall              | Concrete            | Poor          | Tan         | 0.7                                | Negative        |                        | 0.15                               |
| 600                  | Chemical building | Roof            | D        | Roof pipe         | Metal               | Poor          | White       | 0.7                                | Negative        |                        | 0.2                                |
| 601                  | Chemical building | Exterior        | A        | Post              | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.03                               |
| 602                  | Chemical building | Exterior        | A        | Post brace        | Metal               | Fair          | White       | 0.7                                | Negative        |                        | 0.01                               |
| 603                  | Chemical building | Exterior        | A        | Pipe              | Metal               | Fair          | White       | 0.7                                | Negative        |                        | 0.11                               |
| 604                  | Chemical building | Exterior        | C        | Wall              | Concrete            | Intact        | White       | 0.7                                | Negative        |                        | 0.11                               |
| 605                  | Chemical building | Exterior        | A        | Wall              | Concrete            | Intact        | White       | 0.7                                | Negative        |                        | 0.11                               |
| 606                  | Chemical building | Exterior        | B        | Wall              | Concrete            | Intact        | White       | 0.7                                | Negative        |                        | 0.11                               |
| 607                  | Chemical building | Exterior        | D        | Wall              | Concrete            | Intact        | White       | 0.7                                | Negative        |                        | 0.11                               |
| 608                  | Chemical building | Exterior        | B        | Wall mural        | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.03                               |
| 609                  | Chemical building | Exterior        | B        | Wall mural        | Wood                | Intact        | Blue        | 0.7                                | Negative        |                        | 0.01                               |
| 610                  | Chemical building | Exterior        | B        | Wall mural        | Wood                | Intact        | Red         | 0.7                                | Negative        |                        | 0.1                                |
| 611                  | Chemical building | Exterior        | C        | Gate              | Metal               | Poor          | Black       | 0.7                                | Negative        |                        | 0.17                               |
| 612                  | Storage building  | First           | A        | Window            | Plaster             | Intact        | White       | 0.7                                | Negative        |                        | 0.01                               |
| 613                  | Storage building  | First           | A        | Wall              | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.04                               |
| 614                  | Storage building  | First           | B        | Wall              | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.04                               |
| 615                  | Storage building  | First           | C        | Wall              | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.04                               |
| 616                  | Storage building  | First           | D        | Wall              | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.04                               |
| 617                  | Storage building  | First           | A        | Window sill       | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.01                               |
| 618                  | Storage building  | First           | 0        | Ceiling           | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.01                               |
| 619                  | Storage building  | First           | D        | Door              | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.01                               |
| 620                  | Storage building  | First           | D        | Door jamb         | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.03                               |
| 621                  | Storage building  | First           | D        | Door frame        | Wood                | Intact        | Blue        | 0.7                                | Negative        |                        | 0.02                               |
| 622                  | Storage building  | First           | A        | Wall              | Wood                | Intact        | Orange      | 0.7                                | Negative        |                        | 0.02                               |
| 623                  | Storage building  | First           | 0        | Floor             | Tile                | Intact        | Blue        | 0.7                                | Negative        |                        | 0.01                               |
| 624                  | Storage building  | Exterior        | D        | Cabinet           | Wood                | Intact        | Red         | 0.7                                | Negative        |                        | 0.02                               |
| 625                  | Storage building  | Exterior        | D        | Cabinet           | Wood                | Intact        | Blue        | 0.7                                | Negative        |                        | 0.23                               |
| 626                  | Storage building  | Exterior        | D        | Cabinet           | Wood                | Intact        | White       | 0.7                                | Negative        |                        | 0.05                               |
| 627                  | Exterior          | Exterior        | 0        | Floor             | Concrete            | Intact        | Blue        | 0.7                                | Negative        |                        | 0.03                               |
| 628                  | Exterior          | Exterior        | 0        | Floor             | Concrete            | Intact        | Red         | 0.7                                | Negative        |                        | 0.04                               |
| <b>629</b>           | <b>Exterior</b>   | <b>Exterior</b> | <b>0</b> | <b>Floor sign</b> | <b>Ceramic tile</b> | <b>Intact</b> | <b>Blue</b> | <b>0.7</b>                         | <b>Positive</b> | <b>14 total / 7 SF</b> | <b>11.41</b>                       |
| 630                  | Exterior          | Exterior        | C        | Fence bumper      | Wood                | Fair          | Blue        | 0.7                                | Negative        |                        | 0.04                               |
| 631                  | Chemical building | Exterior        | A        | Pipe              | Metal               | Poor          | Green       | 0.7                                | Negative        |                        | 0.03                               |
| 632                  | Storage building  | Exterior        | D        | Flashing          | Metal               | Intact        | White       | 0.7                                | Negative        |                        | 0.01                               |
| 633                  | Storage building  | Exterior        | D        | Fascia            | Wood                | Intact        | Blue        | 0.7                                | Negative        |                        | 0.05                               |
| 634                  | Exterior          | Exterior        | C        | Wall              | Concrete            | Intact        | Light blue  | 0.7                                | Negative        |                        | 0.11                               |
| 635                  | Exterior          | Exterior        | C        | Wall              | Concrete            | Intact        | Blue        | 0.7                                | Negative        |                        | 0.15                               |
| 636                  | Exterior          | Exterior        | A        | Wall              | Concrete            | Intact        | Tan         | 0.7                                | Negative        |                        | 0.08                               |
| 637                  | Exterior          | Exterior        | A        | Wall              | Concrete            | Intact        | Blue        | 0.7                                | Negative        |                        | 0.06                               |
| 638                  | Exterior          | Exterior        | A        | Wall              | Concrete            | Intact        | White       | 0.7                                | Negative        |                        | 0.08                               |
| NS                   | Wading pool       | Exterior        | NS       | Wall              | Ceramic tile        | Intact        | Blue        | 0.7                                | Positive        | 75 SF                  | Assumed                            |
| NS                   | Wading pool       | Exterior        | NS       | Wall              | Concrete            | Intact        | White       | 0.7                                | Positive        | 2,425 SF               | Assumed                            |
| NS                   | Wading pool       | Exterior        | NS       | Floor             | Concrete            | Intact        | White       | 0.7                                | Positive        | Same as above          | Assumed                            |
| NS                   | Swimming pool     | Exterior        | NS       | Wall              | Ceramic tile        | Intact        | Blue        | 0.7                                | Positive        | 400 SF                 | Assumed                            |
| NS                   | Swimming pool     | Exterior        | NS       | Floor             | Ceramic tile        | Intact        | Blue        | 0.7                                | Positive        | Same as above          | Assumed                            |

**Table 2 - XRF Readings for Lead Containing Substances**

| Reading No.   | Room          | Floor  | Side | Component | Substrate | Condition | Color | Action Level (mg/cm <sup>2</sup> ) | Results  | Approximate Quantity | Lead Reading (mg/cm <sup>2</sup> ) |      |
|---|---------------|--|------|-----------|-----------|-----------|-------|------------------------------------|----------|----------------------|------------------------------------|------|
| NS  | Swimming pool | Exterior   | NS   | Wall      | Concrete  | Intact    | White | 0.7                                | Positive | 11,150 SF            | Assumed                            |      |
| NS  | Swimming pool | Exterior   | NS   | Floor     | Concrete  | Intact    | White | 0.7                                | Positive | Same as above        | Assumed                            |      |
| <b>Calibration</b>                                    |               |  |      |           |           |           |       |                                    |          |                      |                                    |      |
| 639   | 3/31/14 Start | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 0.98 |
| 640   |               | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 1.06 |
| 641   | 3/31/14 End   | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 1.1  |
| 642   |               | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 0.98 |
| 643   |               | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 0.98 |
| 644   |               | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 1.01 |
| 645   | 4/1/14 Start  | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 1.05 |
| 646   |               | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 1.04 |
| 647   |               | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 1.03 |
| 648   | 4/1/14 End    | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 1.02 |
| 649   |               | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 0.98 |
| 650   |               | Standard Calibration Check 1.04 +/- 0.06mg/cm <sup>2</sup> |      |           |           |           |       | 0.7                                | Positive |                      |                                    | 1.04 |
| <b>Notes:</b>   |               |  |      |           |           |           |       |                                    |          |                      |                                    |      |
| LF - linear feet                                      |               |  |      |           |           |           |       |                                    |          |                      |                                    |      |
| mg/cm <sup>2</sup> - milligrams per square centimeter |               |  |      |           |           |           |       |                                    |          |                      |                                    |      |
| NS - not sampled                                      |               |  |      |           |           |           |       |                                    |          |                      |                                    |      |
| SF - square feet                                      |               |  |      |           |           |           |       |                                    |          |                      |                                    |      |

**Table 3 – Universal Waste Inventory**

| Hazardous Material Location                            | Hazardous Material Description         | Estimated Quantity |
|--|--|--------------------|
| <b>Locker Rooms &amp; Offices Building</b>             |  |                    |
| Throughout building                                    | Fluorescent light ballasts             | 140                |
|  | PCB containing light ballasts          | 20                 |
|  | Fluorescent light bulbs                | 300                |
|  | Compact fluorescent lamps              | 28                 |
| Men's and women's restrooms                            | Mercury containing thermostats         | 2                  |
| <b>Main Pool Building</b>                              |  |                    |
| Throughout building                                    | Fluorescent light ballasts             | 16                 |
|  | Fluorescent light bulbs                | 34                 |
|  | Compact fluorescent lamps              | 22                 |
| Basement   | 5-gallon calcium increaser             | 7                  |
|  | 5-gallon clear view                    | 1                  |
|  | 5-gallon sodium thiosulfate            | 3                  |
|  | 150-gallon hydrochloric acid           | 1                  |
|  | 350-gallon sodium hypochlorite         | 1                  |
|  | 55-gallon muriatic acid                | 4                  |
|  | 55-gallon hydrochloric acid            | 1                  |
|  | 100-pound sacks of harbolite           | 40                 |
|  | 5-gallon chem-clean express            | 4                  |
|  | 50-pound sacks Corrosive salt          | 15                 |
| <b>Restaurant Building</b>                             |  |                    |
| Throughout building                                    | Fluorescent light ballasts             | 236                |
|  | PCB containing light ballasts          | 180                |
|  | Fluorescent light bulbs                | 377                |
|  | Mercury containing thermostats         | 1                  |
|  | Ansul Fire Protection Hood System      | 1                  |
| Roof   | Air conditioning units                 | 4                  |
| <b>Old Pool Area (Chemical &amp; Storage Building)</b> |  |                    |
| Office, storage and chemical/mechanical room           | Fluorescent light ballasts             | 2                  |
|  | Fluorescent light bulbs                | 4                  |
|  | Compact fluorescent lamps              | 2                  |
|  | Industrial heaters                     | 1                  |
|  | 150-gallon tank of hydrochloric acid   | 1                  |
|  | 150-gallon tank of sodium hypochlorite | 1                  |
| <b>Notes:</b>  |  |                    |
| PCB – polychlorinated biphenyls                        |  |                    |



REFERENCE: 52ND EDITION, THOMAS GUIDE FOR LOS ANGELES/ORANGE COUNTIES, STREET GUIDE AND DIRECTORY.

SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.  
Map © Rand McNally, R.L.07-S-129

**Ninyo & Moore**

**SITE LOCATION**

FIGURE

PROJECT NO.

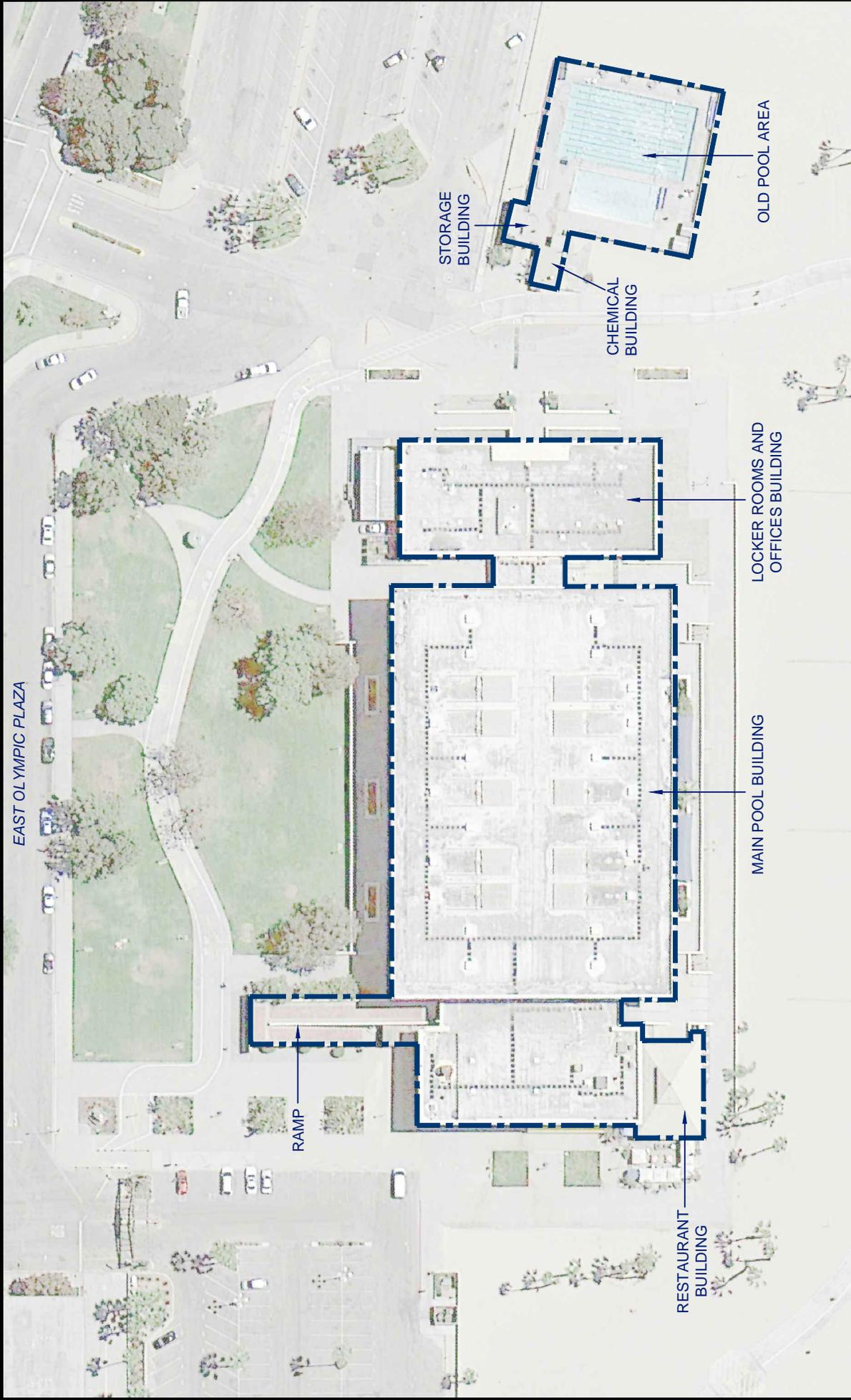
DATE

4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

209120001

7/14

**1**



REFERENCE: GOOGLE EARTH IMAGERY, 2014.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND



SITE BOUNDARY

**Ninyo & Moore**

**SITE PLAN**

FIGURE

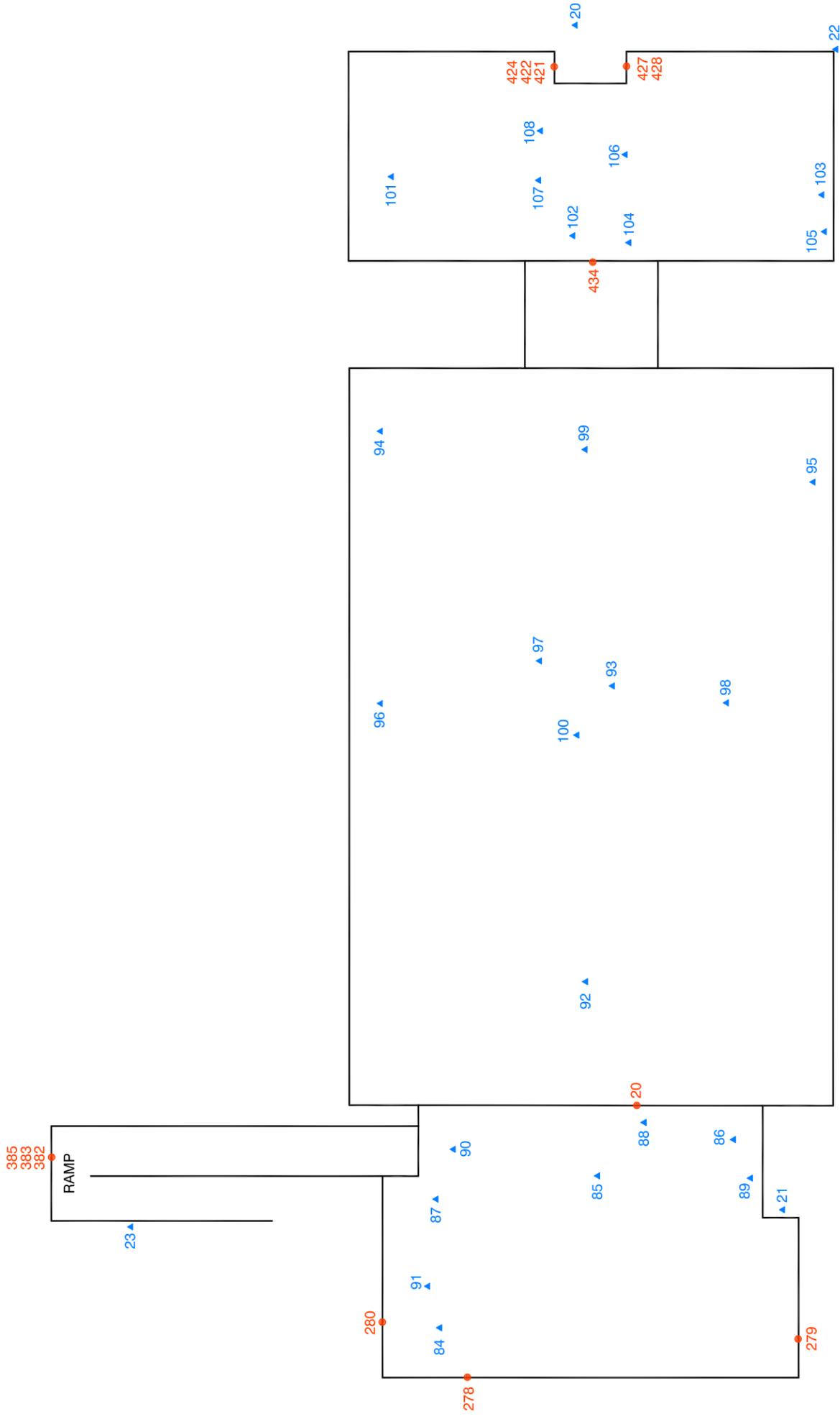
4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

PROJECT NO. 209120001

DATE 7/14

**2**

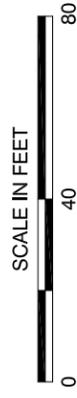
C D  
B A  
XRF ORIENTATION



LOCKER ROOM AND OFFICES BUILDING

MAIN POOL BUILDING

RESTAURANT BUILDING



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

| LEGEND |                                    |
|--------|------------------------------------|
| 280 ●  | IDENTIFIED LEAD-CONTAINING SURFACE |
| 100 ▲  | ASBESTOS BULK SAMPLE               |

**Ninyo & Moore**

| PROJECT NO. | DATE |
|-------------|------|
| 209120001   | 7/14 |

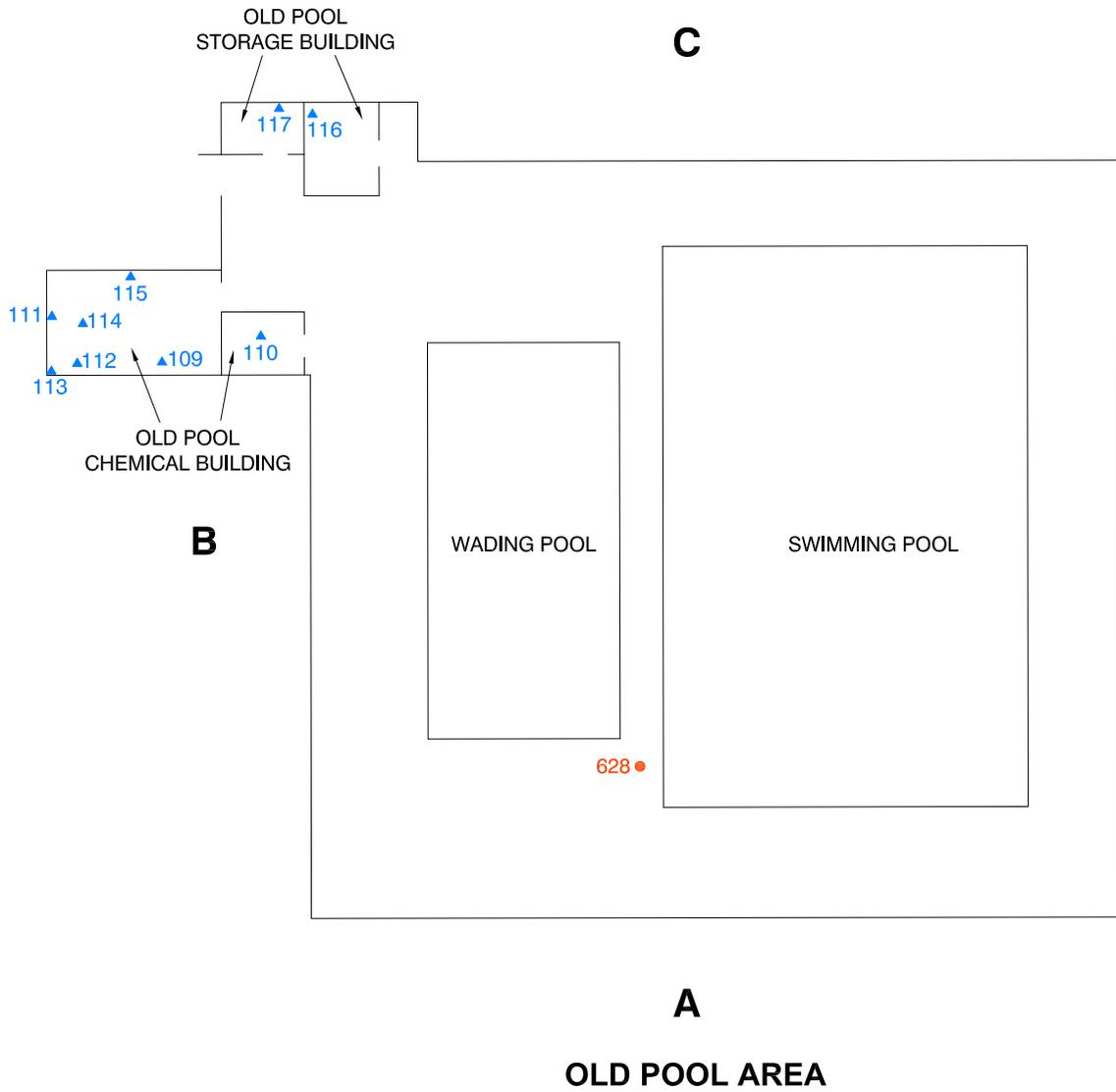
EXTERIOR SAMPLE LOCATIONS

4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

FIGURE

**3**

C  
B      D  
A  
XRF ORIENTATION



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

| LEGEND |                                    |
|--------|------------------------------------|
| 628 ●  | IDENTIFIED LEAD-CONTAINING SURFACE |
| 117 ▲  | ASBESTOS BULK SAMPLE               |
| A      | XRF ORIENTATION                    |

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**EXTERIOR SAMPLE LOCATIONS**

FIGURE

|             |      |
|-------------|------|
| PROJECT NO. | DATE |
| 209120001   | 7/14 |

4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

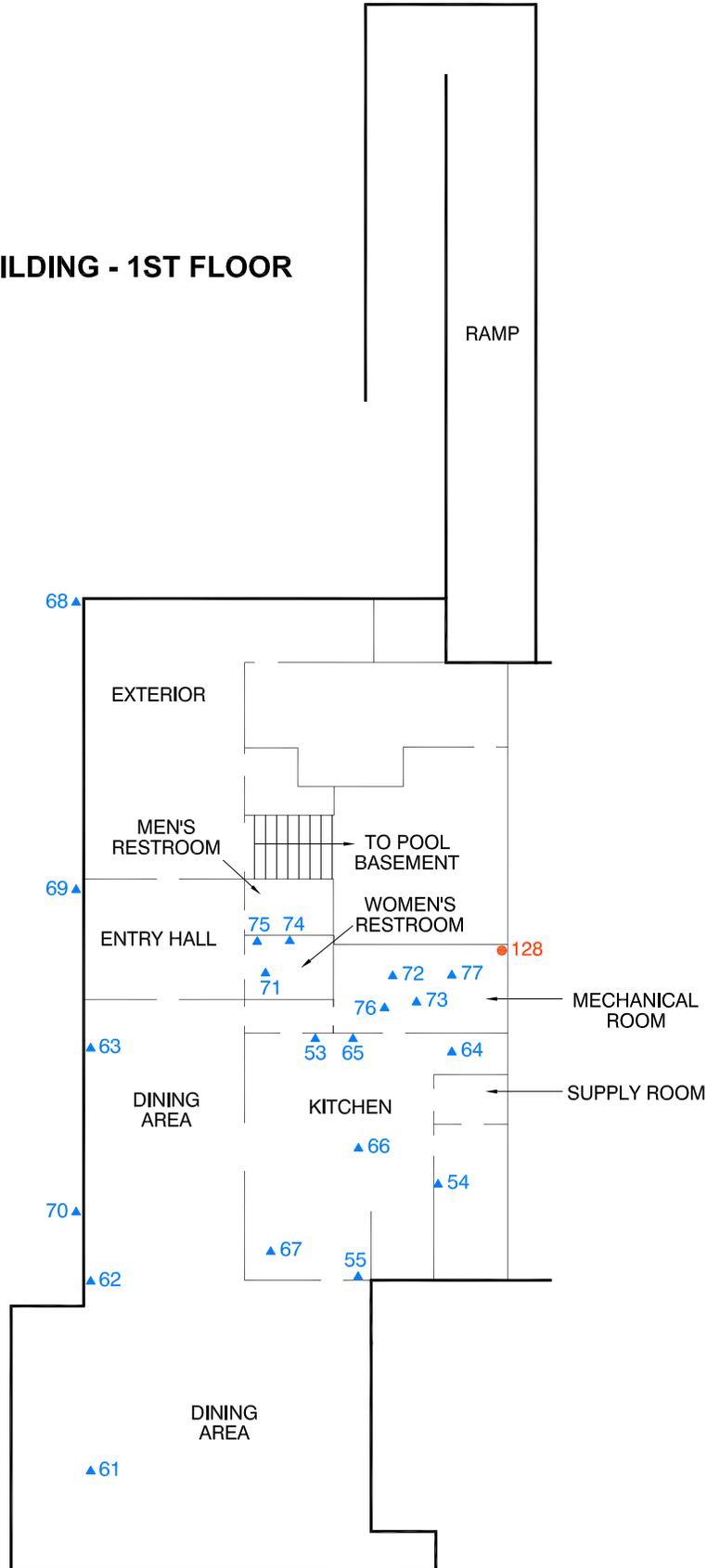
**4**

**LEGEND**

128 ● ASSUMED ASBESTOS-CONTAINING MATERIAL

117 ▲ ASBESTOS BULK SAMPLE

**RESTAURANT BUILDING - 1ST FLOOR**



**INTERIOR SAMPLE LOCATIONS**

FIGURE

PROJECT NO.

DATE

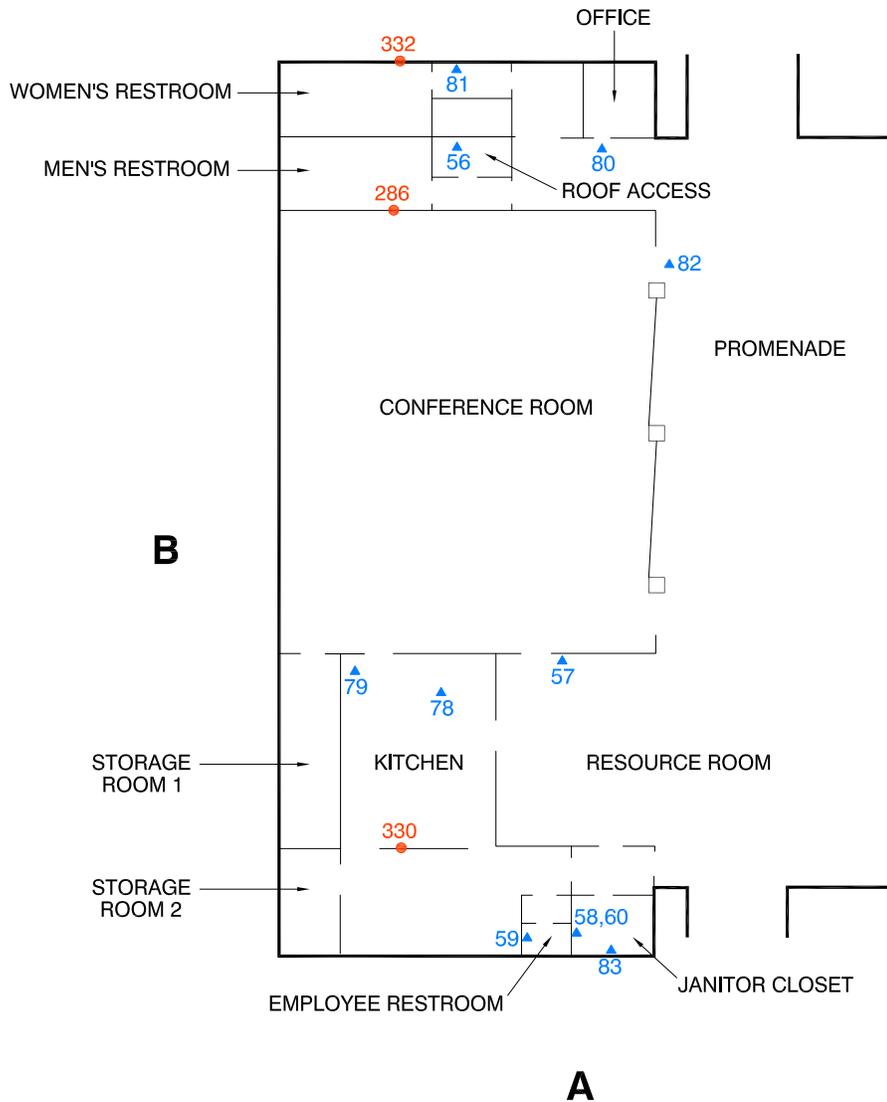
4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

**5**

209120001

7/14

C  
B D  
A  
XRF ORIENTATION



**RESTAURANT BUILDING - 2ND FLOOR**



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

**LEGEND**

- 332 ● IDENTIFIED LEAD-CONTAINING SURFACE
- 83 ▲ ASBESTOS BULK SAMPLE
- A XRF ORIENTATION

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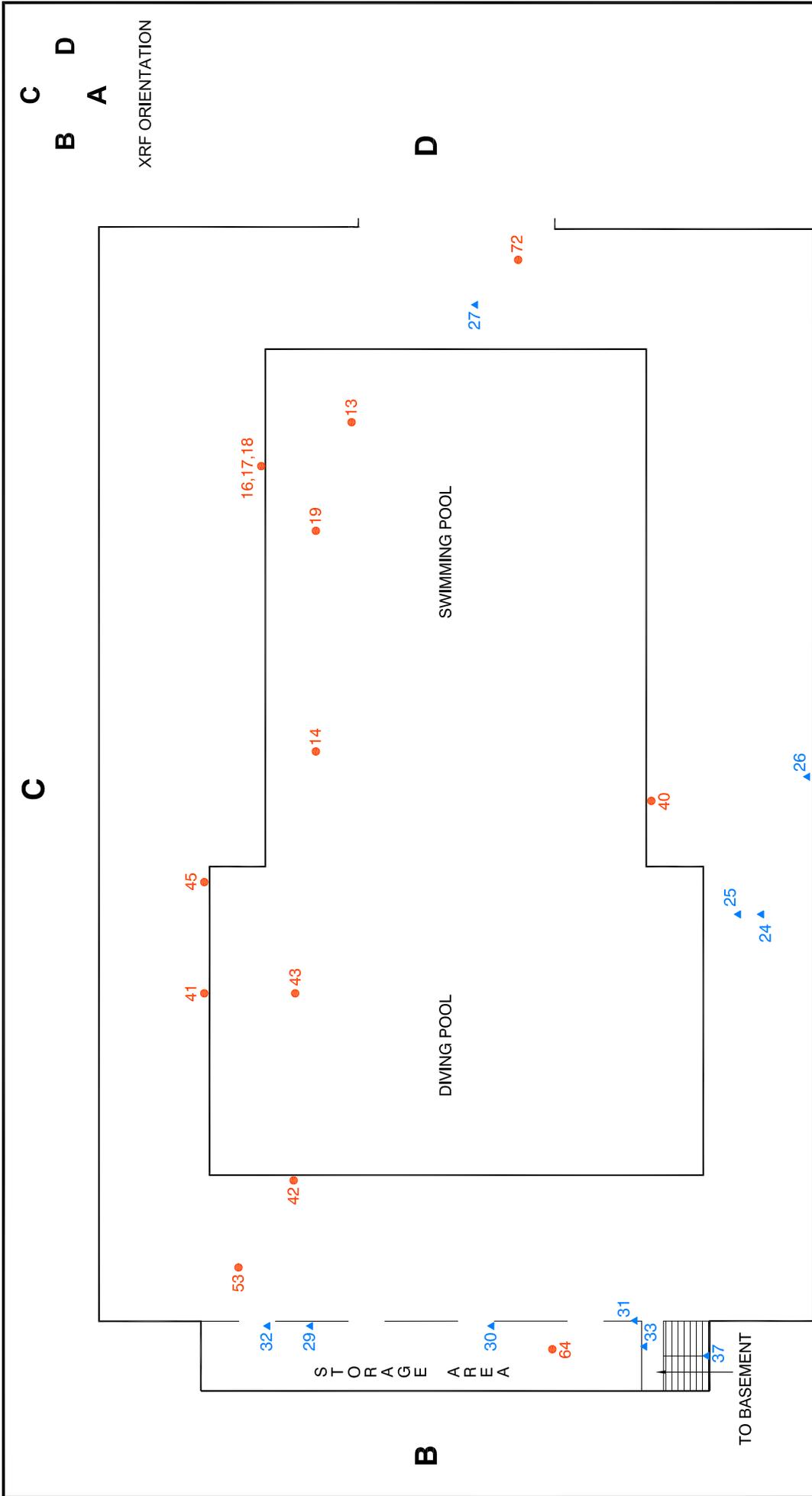
**INTERIOR SAMPLE LOCATIONS**

FIGURE

|             |      |
|-------------|------|
| PROJECT NO. | DATE |
| 209120001   | 7/14 |

4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

**6**



**LEGEND**

- 72 ● IDENTIFIED LEAD-CONTAINING SURFACE
- 37 ▲ ASBESTOS BULK SAMPLE
- A XRF ORIENTATION

**A**

**MAIN POOL BUILDING**

**Ninyo & Moore**

|             |      |
|-------------|------|
| PROJECT NO. | DATE |
| 209120001   | 7/14 |

**INTERIOR SAMPLE LOCATIONS**

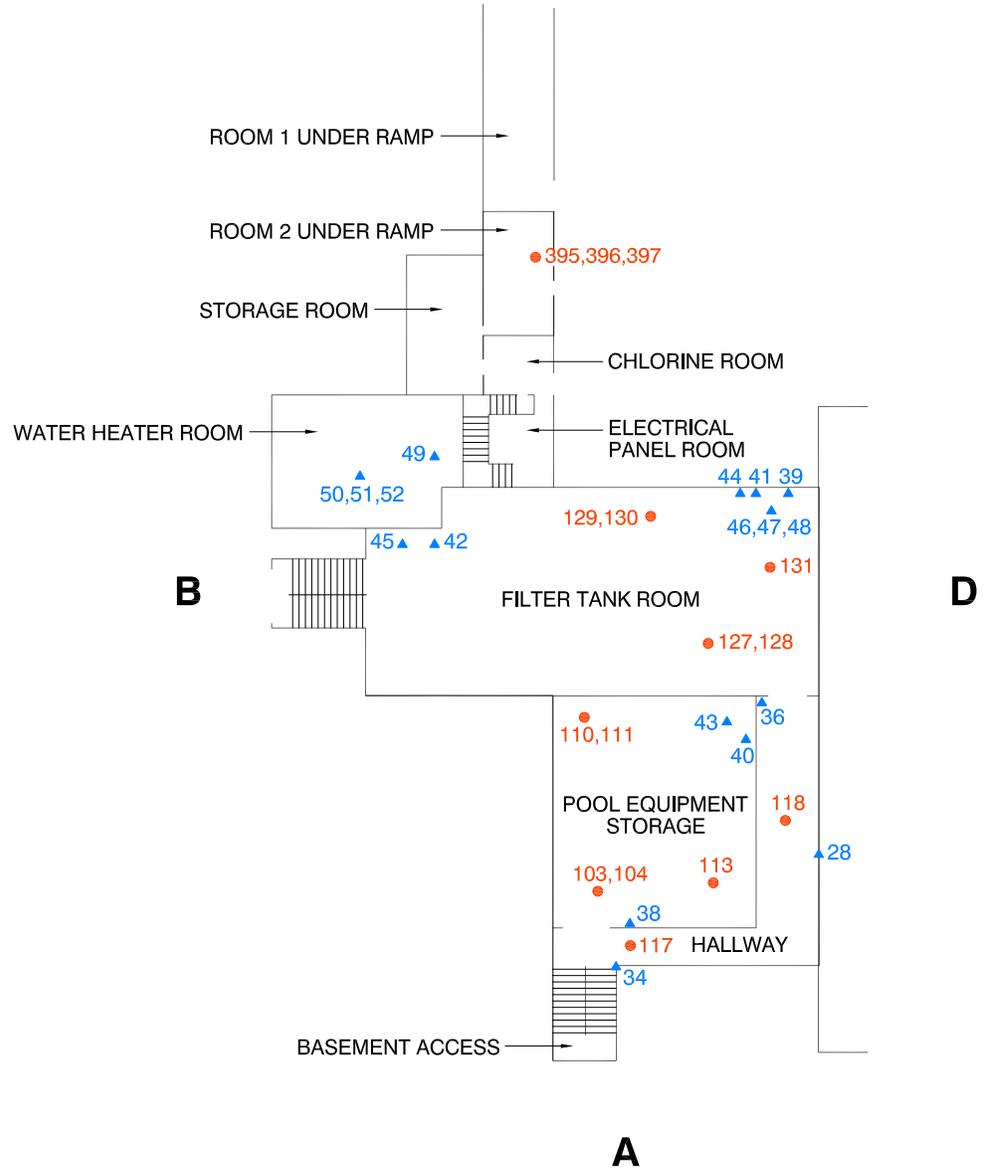
|   |  |
|---|--|
| 4000 EAST OLYMPIC PLAZA<br>LONG BEACH, CALIFORNIA |  |
|---|--|

FIGURE **7**

SCALE IN FEET

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

C  
B D  
A  
XRF ORIENTATION



MAIN POOL BUILDING - BASEMENT/UNDER RAMP



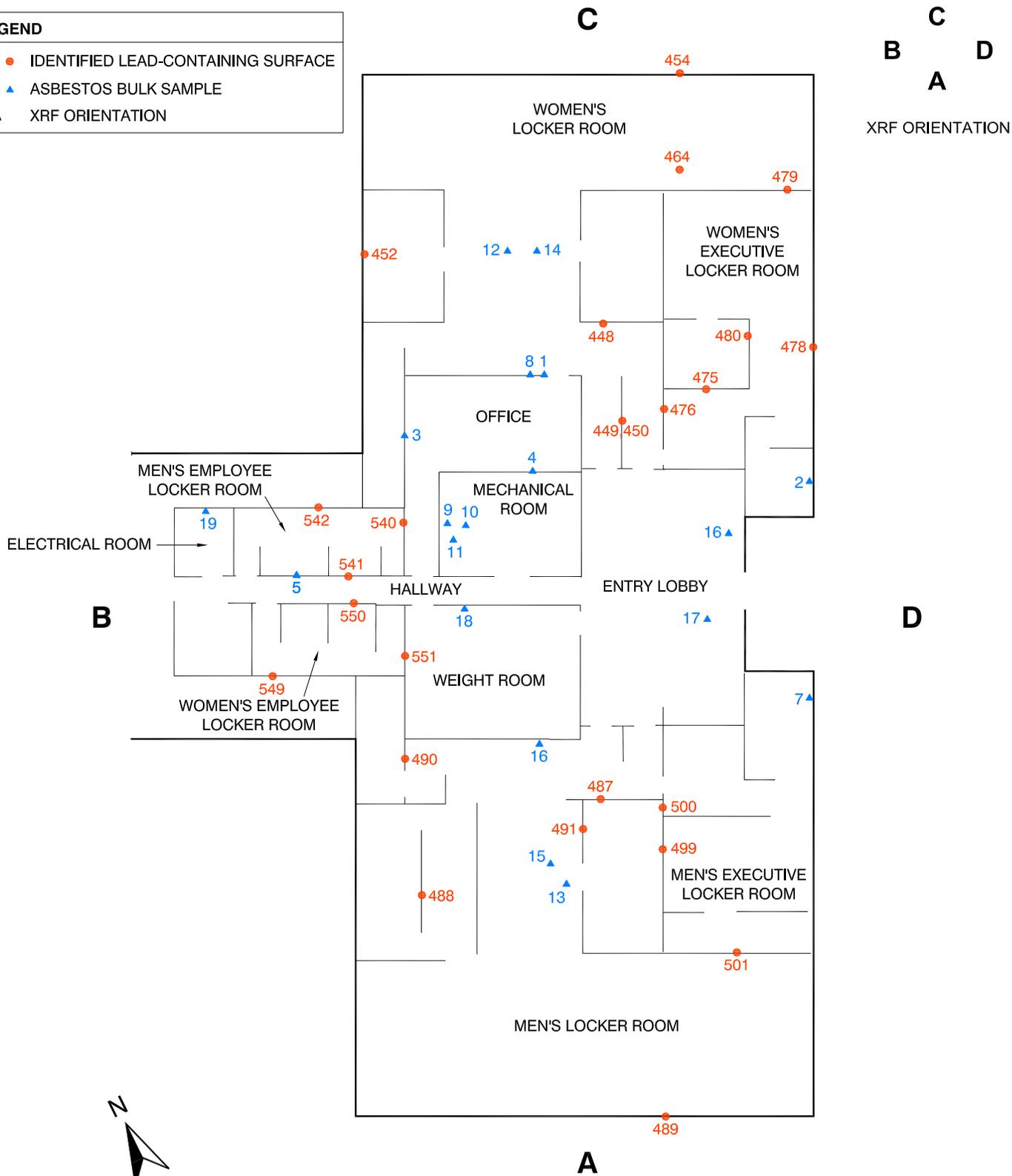
NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

| LEGEND |                                    |
|--------|------------------------------------|
| 397 ●  | IDENTIFIED LEAD-CONTAINING SURFACE |
| 52 ▲   | ASBESTOS BULK SAMPLE               |
| A      | XRF ORIENTATION                    |

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|             |      |   |          |
|-------------|------|---|----------|
|             |      | <p style="text-align: center;"><b>INTERIOR SAMPLE LOCATIONS</b></p> <p style="text-align: center;">4000 EAST OLYMPIC PLAZA<br/>LONG BEACH, CALIFORNIA</p> | FIGURE   |
|             |      |   | <b>8</b> |
| PROJECT NO. | DATE |   |          |
| 209120001   | 7/14 |   |          |

| LEGEND |                                    |
|--------|------------------------------------|
| 550 ●  | IDENTIFIED LEAD-CONTAINING SURFACE |
| 19 ▲   | ASBESTOS BULK SAMPLE               |
| A      | XRF ORIENTATION                    |



**LOCKER ROOMS AND OFFICES BUILDING**



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.



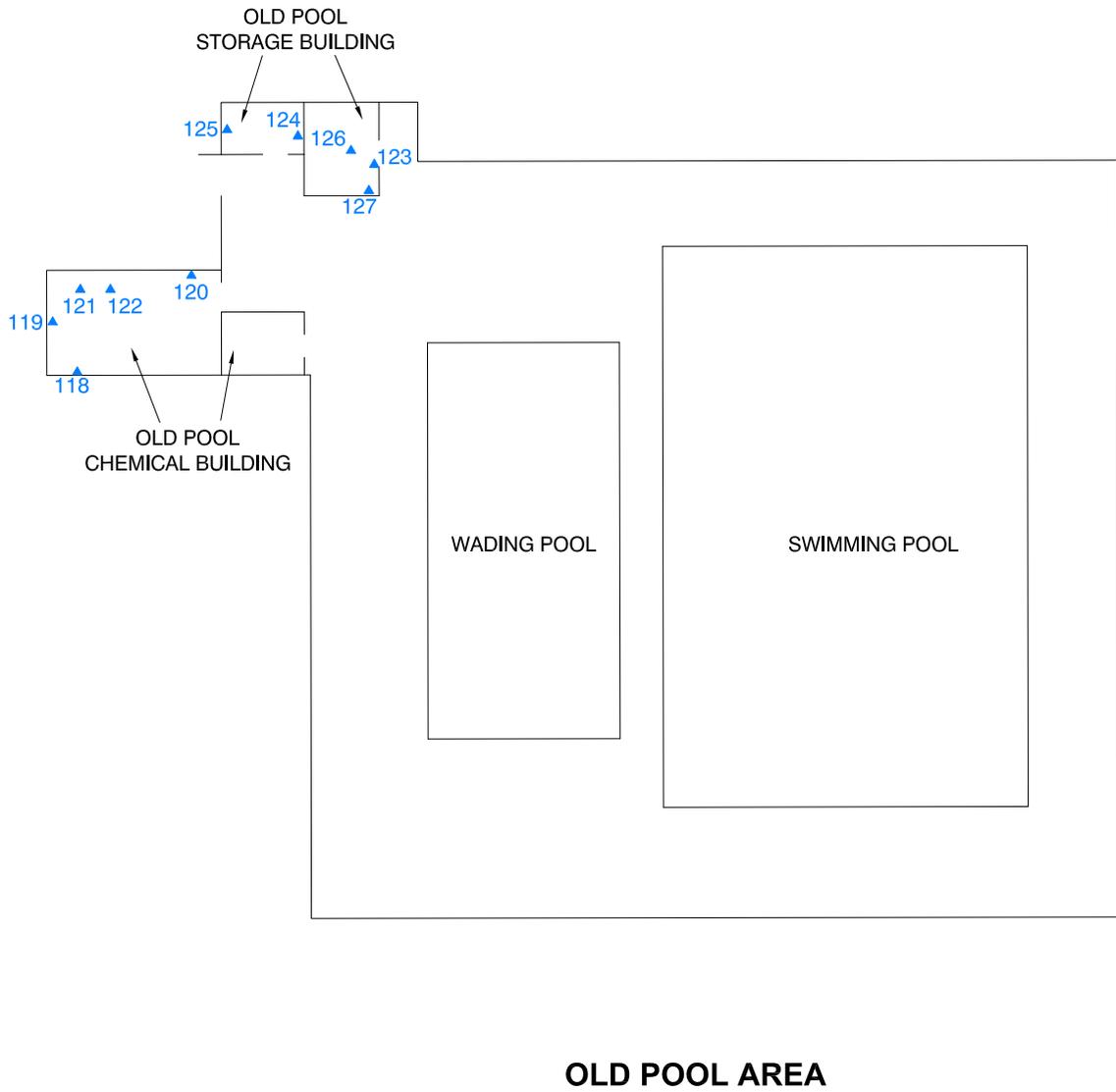
**INTERIOR SAMPLE LOCATIONS**

FIGURE

|             |      |
|-------------|------|
| PROJECT NO. | DATE |
| 209120001   | 7/14 |

4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

**9**



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

| LEGEND |                      |
|--------|----------------------|
| 127 ▲  | ASBESTOS BULK SAMPLE |

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|                          |      |   |                         |
|--------------------------|------|---|-------------------------|
| <b>Ninyo &amp; Moore</b> |      | <b>INTERIOR SAMPLE LOCATIONS</b>                  | FIGURE<br><br><b>10</b> |
| PROJECT NO.              | DATE | 4000 EAST OLYMPIC PLAZA<br>LONG BEACH, CALIFORNIA |                         |
| 209120001                | 7/14 |   |                         |

**APPENDIX A**  
**CORROSION STUDY**

## **SOIL CORROSIVITY EVALUATION**

*for the*

### **BELMONT PLAZA POOL FACILITY REBUILD/REVITALIZATION PROJECT**

in

LONG BEACH, CALIFORNIA

prepared for

**NINYO & MOORE, INC**

Irvine, California

prepared by



*Consulting Corrosion Engineers*

431 West Baseline Road

Claremont, California 91711

HDR #229904

April 23, 2014

## **Executive Summary**

---

HDR Engineering, Inc. (HDR|Schiff) has completed the study for Belmont Plaza Pool Facility Rebuild/Revitalization Project for the City of Long Beach, California. The proposed facility will be located in the approximate location of the existing Belmont Pool facility. Additionally, a proposed outdoor pool will be constructed immediately north of the existing facility. HDR|Schiff assumes that the ten (10) soil samples provided by Ninyo and Moore from the proposed facility location are representative of the most corrosive soils at the site.

The ground water depth is not reported, but due to the proximity of the site to the ocean the ground water is assumed to be less than ten (10) feet below grade.

The scope of this study is limited to a determination of soil corrosivity and general corrosion control recommendations for materials likely to be used for construction. Our recommendations do not constitute, and are not meant as a substitute for, design documents for the purpose of construction. If the architects and/or engineers desire more specific information, designs, specifications, or review of design, HDR|Schiff will be happy to work with them as a separate phase of this project.

Based on our laboratory analysis, this soil is classified as corrosive to ferrous metals.

HDR|Schiff recommends the following corrosion protection measures.

1. From a corrosion standpoint, any type of cement may be used for concrete structures and pipe because the sulfate concentration is negligible, 0 to 0.1 percent.<sup>1,2,3</sup>
2. Standard concrete cover over reinforcing steel may be used for concrete structures and pipe in contact with these soils due to the low chloride concentration<sup>4</sup> found onsite.
3. Due to the high ground water table anticipated at this site, cyclical or continual wetting may be an issue. Any contact between concrete structures and ground water should be prevented. Contact can be prevented with an impermeable waterproofing system.

For additional recommendations refer to the recommendations section of the report.

---

<sup>1</sup> 2009 International Building Code (IBC) which refers to American Concrete Institute (ACI-318) Table 4.3.1

<sup>2</sup> 2009 International Residential Code (IRC) which refers to American Concrete Institute (ACI-318) Table 4.3.1

<sup>3</sup> 2010 California Building Code (CBC) which refers to American Concrete Institute (ACI-318) Table 4.3.1

<sup>4</sup> Design Manual 303: Concrete Cylinder Pipe. Ameron. p.65

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## Test Procedures

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### Laboratory Tests on Soil Samples

The electrical resistivity of each sample was measured in a soil box per ASTM G187 in its as-received condition and again after saturation with distilled water. Resistivities are at about their lowest value when the soil is saturated. The pH of the saturated samples was measured per CTM 643. A 5:1 water:soil extract from each sample was chemically analyzed for the major soluble salts commonly found in soil per ASTM D4327 and D6919. Laboratory analysis was performed under HDR|Schiff number 229904 and the test results are shown in Table 1.

## Discussion

---

A major factor in determining soil corrosivity is electrical resistivity. The electrical resistivity of a soil is a measure of its resistance to the flow of electrical current. Corrosion of buried metal is an electrochemical process in which the amount of metal loss due to corrosion is directly proportional to the flow of electrical current (DC) from the metal into the soil. Corrosion currents, following Ohm's Law, are inversely proportional to soil resistivity. Lower electrical resistivities result from higher moisture and soluble salt contents and indicate corrosive soil.

A correlation between electrical resistivity and corrosivity toward ferrous metals is (Romanoff, 1989):

| Soil Resistivity<br>in ohm-centimeters | Corrosivity<br>Category |
|--|-------------------------|
| Greater than 10,000                    | Mildly Corrosive        |
| 2,001 to 10,000                        | Moderately Corrosive    |
| 1,001 to 2,000                         | Corrosive               |
| 0 to 1,000                             | Severely Corrosive      |

Other soil characteristics that may influence corrosivity towards metals are pH, soluble salt content, soil types, aeration, anaerobic conditions, and site drainage.

Electrical resistivities were in the mildly corrosive category with as-received moisture. When saturated, the resistivities were in the mildly corrosive to corrosive categories. The resistivities dropped considerably with added moisture because the samples were dry as-received. The wide variations in soil resistivity can create concentration type corrosion cells that increase corrosion rates above what would be expected from the chemical characteristics alone.

Soil pH values varied from 7.4 to 8.7. This range is mildly alkaline to strongly alkaline (Romanoff, 1989). These values do not particularly increase soil corrosivity. Soil with a pH greater than 8.5 may be aggressive to aluminum.

The soluble salt content of the samples was low.

Nitrate was detected in low concentrations.

Tests were not made for sulfide and negative oxidation-reduction (redox) potential because these samples did not exhibit characteristics typically associated with anaerobic conditions.

The variation in soil types can create differential-aeration corrosion cells that would affect all metals.

Variation in soil resistivity of an order of magnitude or more can create differential-aeration corrosion cells that would affect all metals.

This soil is classified as corrosive to ferrous metals.

## **Conclusions**

---

This soil is classified as corrosive to ferrous metals.

## **Recommendations**

---

The life of buried materials depends on thickness, strength, loads, construction details, soil moisture, etc., in addition to soil corrosivity, and is, therefore, difficult to predict. Of more practical value are corrosion control methods that will increase the life of materials that would be subject to significant corrosion.

The following recommendations are based on the soil conditions discussed in the Soil Corrosivity section above. Unless otherwise indicated, these recommendations apply to the entire site.

### **Steel Pipe**

Implement *all* the following measures:

1. Underground steel pipe with rubber gasketed, mechanical, grooved end, or other nonconductive type joints should be bonded for electrical continuity. Electrical continuity is necessary for corrosion monitoring and cathodic protection.
2. Install corrosion monitoring test stations to facilitate corrosion monitoring and the application of cathodic protection:
  - a. At each end of the pipeline.
  - b. At each end of all casings.
  - c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.
3. To prevent dissimilar metal corrosion cells and to facilitate the application of cathodic protection, electrically isolate each buried steel pipeline per NACE Standard SP0286 from:
  - a. Dissimilar metals.
  - b. Dissimilarly coated piping (cement-mortar vs. dielectric).

- c. Above ground steel pipe.
  - d. All existing piping.
4. Choose one of the following corrosion control options:

**OPTION 1**

- a. Apply a suitable dielectric coating intended for underground use such as:
  - i. Polyurethane per AWWA C222 *or*
  - ii. Extruded polyethylene per AWWA C215 *or*
  - iii. A tape coating system per AWWA C214 *or*
  - iv. Hot applied coal tar enamel per AWWA C203 *or*
  - v. Fusion bonded epoxy per AWWA C213.
- b. Apply cathodic protection to steel piping as per NACE Standard SP0169.

**OPTION 2**

- a. As an alternative to dielectric coating and cathodic protection, apply a ¾-inch cement mortar coating per AWWA C205 or encase in concrete 3 inches thick, using any type of cement. Joint bonds, test stations, and insulated joints are still required for these alternatives.

NOTE: Some steel piping systems, such as for oil, gas, and high-pressure piping systems, have special corrosion and cathodic protection requirements that must be evaluated for each specific application.

**Iron Pipe**

Implement *all* the following measures:

- 1. Electrically insulate underground iron pipe from dissimilar metals and from above ground iron pipe with insulating joints per NACE Standard SP0286.
- 2. Bond all nonconductive type joints for electrical continuity. Electrical continuity is necessary for corrosion monitoring and cathodic protection.
- 3. Install corrosion monitoring test stations to facilitate corrosion monitoring and the application of cathodic protection:
  - a. At each end of the pipeline.
  - b. At each end of any casings.
  - c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.
- 4. Choose one of the following corrosion control options:

**OPTION 1**

- a. Apply a suitable coating intended for underground use such as:
  - i. Polyethylene encasement per AWWA C105; *or*
  - ii. Epoxy coating; *or*

- iii. Polyurethane; *or*
- iv. Wax tape.

NOTE: The thin factory-applied asphaltic coating applied to ductile iron pipe for transportation and aesthetic purposes does not constitute a corrosion control coating.

- b. Apply cathodic protection to cast and ductile iron piping as per NACE Standard SP0169.

## OPTION 2

- a. As an alternative to coating systems described in Option 1 and cathodic protection, concrete encase all buried portions of metallic piping so that there is a minimum of 3 inches of concrete cover provided over and around surfaces of pipe, fittings, and valves using any type of cement.

## Copper Tubing

Implement *all* the following measures:

1. Place cold water copper tubing in an 8-mil polyethylene sleeve or encase in double 4-mil thick polyethylene sleeves and bed and backfill with clean sand at least 2 inches thick surrounding the tubing. Clean sand should have a minimum resistivity of no less than 3000 ohm-cm, and a pH of 6.0–8.0. Copper tubing for cold water can also be treated the same as for hot water.
2. Hot water tubing may be subject to a higher corrosion rate. Protect hot copper tubing by one of the following measures:
  - a. Preventing soil contact. Soil contact may be prevented by placing the tubing above ground or encasing the tubing with PVC pipe with solvent-welded joints.  
*or*
  - b. Applying cathodic protection per NACE Standard SP0169. The amount of cathodic protection current needed can be minimized by coating the tubing.

## Plastic and Vitrified Clay Pipe

1. No special precautions are required for plastic and vitrified clay piping placed underground from a corrosion viewpoint.
2. Protect all metallic fittings and valves with wax tape per AWWA C217 or epoxy.

## All Pipe

1. On all pipes, appurtenances, and fittings not protected by cathodic protection, coat bare metal such as valves, bolts, flange joints, joint harnesses, and flexible couplings with wax tape per AWWA C217 after assembly.

2. Where metallic pipelines penetrate concrete structures such as building floors, vault walls, and thrust blocks use plastic sleeves, rubber seals, or other dielectric material to prevent pipe contact with the concrete and reinforcing steel.

### Concrete

1. From a corrosion standpoint, any type of cement may be used for concrete structures and pipe because the sulfate concentration is negligible, 0 to 0.1 percent.<sup>5,6,7</sup>
2. Standard concrete cover over reinforcing steel may be used for concrete structures and pipe in contact with these soils due to the low chloride concentration<sup>8</sup> found onsite.
3. Due to the high ground water table anticipated at this site, cyclical or continual wetting may be an issue. Any contact between concrete structures and ground water should be prevented. Contact can be prevented with an impermeable waterproofing system.

### Post Tensioning Slabs: Unbonded Single-Stranded Tendons and Anchors

1. Soil is considered an aggressive environment for post-tensioning strands and anchors. Protect post-tensioning strands and anchors against corrosion by implementing *all* the following measures:<sup>9,10,11</sup>
  - a. Prior to grouting the pocket, apply a corrosion protection cap filled with corrosion protection material to the strand end that fully encapsulates the strand end and wedge cavity such as Tiger Industries' PocketCap or equal. Ensure the cap fully seats against the anchor face.
  - b. All components exposed to the job site should be protected within one working day after their exposure during installation.
  - c. Ensure the minimum concrete cover over the tendon tail is 1 inch, or greater if required by the applicable building code.
  - d. Caps and sleeves should be installed within one working day after the cutting of the tendon tails and acceptance of the elongation records by the engineer.
  - e. Inspect the following to ensure the encapsulated system is completely watertight:
    - i. Sheathing: Verify that all damaged areas, including pin-holes, are repaired.
    - ii. Stressing tails: After removal, ensure they are cut to a length for proper installation of P/T coating filled end caps.
    - iii. End caps: Ensure proper installation before patching the pocket former recesses.

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<sup>5</sup> 2009 International Building Code (IBC) which refers to American Concrete Institute (ACI-318) Table 4.3.1

<sup>6</sup> 2009 International Residential Code (IRC) which refers to American Concrete Institute (ACI-318) Table 4.3.1

<sup>7</sup> 2010 California Building Code (CBC) which refers to American Concrete Institute (ACI-318) Table 4.3.1

<sup>8</sup> Design Manual 303: Concrete Cylinder Pipe. Ameron. p.65

<sup>9</sup> Post-Tensioning Manual, sixth edition. Post-Tensioning Institute (PTI), Phoenix, AZ, 2006.

<sup>10</sup> Specification for Unbonded Single Strand Tendons. Post-Tensioning Institute (PTI), Phoenix, AZ, 2000.

<sup>11</sup> ACI 423.6-01: Specification for Unbonded Single Strand Tendons. American Concrete Institute (ACI), 2001

- iv. Patching: Ensure the patch is of an approved material and mix design, and installed void-free.

Limit the access of direct runoff onto the anchorage area by designing proper drainage.

## **Concrete Piles**

### **Pre-cast Concrete Piles**

1. It is assumed that prestressed concrete piles will contain about 8 sacks of type V cement per cubic yard of concrete, a water/cement ratio not exceeding 0.45, and 2 inches of concrete cover. No further corrosion control measures are required for such piles.
2. If ground water is present, solid steel lifting lugs are recommended to prevent ground water from wicking into the pile interior. If wire rope lifting lugs are used, they should be carefully drilled out 1.5 inches deep and the hole filled with epoxy.

### **Steel Reinforced Cast in Place Concrete Piles**

1. Protect steel reinforced cast-in-place and cast-in-drilled-hole concrete piles the same way as concrete structures mentioned under the concrete structures section in this report.

## **Steel Piles**

1. Steel piles are most susceptible to corrosion in disturbed soil where oxygen is available. Further, a dissimilar environment corrosion cell would exist between the steel embedded in concrete, such as pile caps and the steel in the soil. In the cell, the steel in the soil is the anode (corroding metal), and the steel in concrete is the cathode (protected metal). This cell can be minimized by coating the part of the steel piles that will be embedded in concrete to prevent contact with concrete and reinforcing steel.

### **Alternative 1: Coated Piles**

Coat the piles with coal tar epoxy or polyurethane recommended by the manufacturer for the steel piles; apply to 25 mil thickness per manufacturer's recommendations.

### **Alternative 2: Coat Upper Portion of Pile**

Coat the piles from the top to 10 feet below the water table. For the remainder use a corrosion allowance of 0.05 inches.

### **Alternative 3: Bare Piles**

Uniform corrosion rates in disturbed soil, such as fill and loose native soil, and/or within 3 feet of the water table are estimated to be 0.96 mils per year or 0.00096 inches per year. Therefore, for a fifty-year design life provide a corrosion allowance of 0.192 inches above what is required for structural capacity for H-piles and 0.096 inches for sealed pipe piles. In undisturbed soil use a corrosion allowance of 0.05 inches.

## All Steel Piles

1. After driving, cutoff, and welding any steel to be welded to the piles, coat exposed steel in the piles and bare steel welded to the piles to prevent pile/concrete contact and to prevent electrical contact between the piles and bare steel such as reinforcing steel and anchor bolts. Abrasive blast and use at least 8 mils dry film thickness of polyurethane or coal tar epoxy intended for underground use or coat with a tape system such as Polyken 900 12-mil tape wrap with a 1027 primer or equivalent. Irregular shaped surfaces that can't be coated with the tape wrap can be coated with wax tape per AWWA C217. The coating should be allowed to cure at least hard enough to prevent damage by the placement of reinforcing steel and concrete before those materials are placed.
2. Steel pipe pile interiors may be protected by filling them with concrete or hermetically sealing the ends.

## Closure

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Our services have been performed with the usual thoroughness and competence of the engineering profession. No other warranty or representation, either expressed or implied, is included or intended.

Please call is you have any question.

Respectfully Submitted,  
HDR ENGINEERING, INC.

Reviewed by,

**DRAFT**

**DRAFT**

Marc E. N. Wegner, P.E.  
Engineering Services Manager

Steven Fox, P.E.  
NACE Corrosion/CP Specialist #7883  
Vice President

Enc: Laboratory Testing

229904-Belmont\_Pool\_SCS-MW-Rev00.docx

**Table 1 - Laboratory Tests on Soil Samples**

*Ninyo & Moore  
Belmont Pool  
Your #229904, HDR\Schiff #14-0139ENG  
4-Apr-14*

| Sample ID                |                                |       | #1     | #2      | #3      | #4     | #5     |
|--------------------------|--------------------------------|-------|--------|---------|---------|--------|--------|
| <b>Resistivity</b>       | <b>Units</b>                   |       |        |         |         |        |        |
| as-received              | ohm-cm                         |       | 11,600 | 272,000 | 124,000 | 72,000 | 12,400 |
| saturated                | ohm-cm                         |       | 1,600  | 44,000  | 28,400  | 18,800 | 4,000  |
| <b>pH</b>                |                                |       | 7.5    | 8.3     | 8.5     | 8.2    | 8.0    |
| <b>Electrical</b>        |                                |       |        |         |         |        |        |
| <b>Conductivity</b>      | mS/cm                          |       | 0.20   | 0.02    | 0.02    | 0.03   | 0.12   |
| <b>Chemical Analyses</b> |                                |       |        |         |         |        |        |
| <b>Cations</b>           |                                |       |        |         |         |        |        |
| calcium                  | Ca <sup>2+</sup>               | mg/kg | 36     | 17      | 22      | 21     | 39     |
| magnesium                | Mg <sup>2+</sup>               | mg/kg | 5.5    | 2.1     | 2.0     | 2.0    | 8.7    |
| sodium                   | Na <sup>1+</sup>               | mg/kg | 182    | 16      | 24      | 24     | 92     |
| potassium                | K <sup>1+</sup>                | mg/kg | 4.3    | 8.3     | 7.0     | 7.4    | 13     |
| <b>Anions</b>            |                                |       |        |         |         |        |        |
| carbonate                | CO <sub>3</sub> <sup>2-</sup>  | mg/kg | ND     | ND      | ND      | ND     | ND     |
| bicarbonate              | HCO <sub>3</sub> <sup>1-</sup> | mg/kg | 201    | 34      | 70      | 55     | 134    |
| fluoride                 | F <sup>1-</sup>                | mg/kg | 13     | ND      | ND      | 0.6    | 1.6    |
| chloride                 | Cl <sup>1-</sup>               | mg/kg | 100    | 1.7     | 3.6     | 5.7    | 74     |
| sulfate                  | SO <sub>4</sub> <sup>2-</sup>  | mg/kg | 147    | 2.3     | 2.2     | 3.8    | 40     |
| phosphate                | PO <sub>4</sub> <sup>3-</sup>  | mg/kg | 2.7    | 1.6     | 2.6     | 2.6    | 7.2    |
| <b>Other Tests</b>       |                                |       |        |         |         |        |        |
| ammonium                 | NH <sub>4</sub> <sup>1+</sup>  | mg/kg | ND     | ND      | ND      | ND     | ND     |
| nitrate                  | NO <sub>3</sub> <sup>1-</sup>  | mg/kg | 1.4    | 2.5     | 3.0     | 6.5    | 35     |
| sulfide                  | S <sup>2-</sup>                | qual  | ND     | ND      | ND      | ND     | ND     |
| Redox                    |                                | mV    | ND     | ND      | ND      | ND     | ND     |

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract.

mg/kg = milligrams per kilogram (parts per million) of dry soil.

Redox = oxidation-reduction potential in millivolts

ND = not detected

na = not analyzed

**Table 1 - Laboratory Tests on Soil Samples**

*Ninyo & Moore  
Belmont Pool  
Your #229904, HDR\Schiff #14-0139ENG  
4-Apr-14*

| Sample ID                |              |                                      | #6      | #7     | #8     | #9     | #10    |
|--------------------------|--------------|--------------------------------------|---------|--------|--------|--------|--------|
| <b>Resistivity</b>       |              |                                      |         |        |        |        |        |
|                          |              | <b>Units</b>                         |         |        |        |        |        |
|                          | as-received  | ohm-cm                               | 128,000 | 84,000 | 88,000 | 72,000 | 21,600 |
|                          | saturated    | ohm-cm                               | 28,800  | 20,800 | 14,000 | 3,320  | 2,880  |
| <b>pH</b>                |              |                                      | 8.6     | 8.4    | 8.7    | 7.5    | 7.4    |
| <b>Electrical</b>        |              |                                      |         |        |        |        |        |
|                          | Conductivity | mS/cm                                | 0.02    | 0.03   | 0.05   | 0.12   | 0.11   |
| <b>Chemical Analyses</b> |              |                                      |         |        |        |        |        |
| <b>Cations</b>           |              |                                      |         |        |        |        |        |
|                          | calcium      | Ca <sup>2+</sup> mg/kg               | 18      | 21     | 36     | 52     | 39     |
|                          | magnesium    | Mg <sup>2+</sup> mg/kg               | 2.0     | 2.2    | 1.6    | 5.7    | 5.1    |
|                          | sodium       | Na <sup>1+</sup> mg/kg               | 19      | 29     | 39     | 91     | 87     |
|                          | potassium    | K <sup>1+</sup> mg/kg                | 10      | 8.8    | 6.0    | 9.1    | 7.6    |
| <b>Anions</b>            |              |                                      |         |        |        |        |        |
|                          | carbonate    | CO <sub>3</sub> <sup>2-</sup> mg/kg  | ND      | ND     | 12     | ND     | ND     |
|                          | bicarbonate  | HCO <sub>3</sub> <sup>1-</sup> mg/kg | 43      | 70     | 73     | 250    | 168    |
|                          | fluoride     | F <sup>1-</sup> mg/kg                | ND      | ND     | 0.7    | 12     | 8.6    |
|                          | chloride     | Cl <sup>1-</sup> mg/kg               | 2.6     | 4.7    | 11     | 26     | 43     |
|                          | sulfate      | SO <sub>4</sub> <sup>2-</sup> mg/kg  | 2.0     | 3.6    | 6.2    | 40     | 35     |
|                          | phosphate    | PO <sub>4</sub> <sup>3-</sup> mg/kg  | 2.4     | 4.1    | 2.4    | 5.0    | 7.7    |
| <b>Other Tests</b>       |              |                                      |         |        |        |        |        |
|                          | ammonium     | NH <sub>4</sub> <sup>1+</sup> mg/kg  | ND      | ND     | ND     | ND     | ND     |
|                          | nitrate      | NO <sub>3</sub> <sup>1-</sup> mg/kg  | 1.6     | 7.0    | 9.5    | 6.6    | 15     |
|                          | sulfide      | S <sup>2-</sup> qual                 | ND      | ND     | ND     | ND     | ND     |
|                          | Redox        | mV                                   | ND      | ND     | ND     | ND     | ND     |

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract.  
 mg/kg = milligrams per kilogram (parts per million) of dry soil.  
 Redox = oxidation-reduction potential in millivolts  
 ND = not detected  
 na = not analyzed

**APPENDIX B**

**INSPECTOR CERTIFICATION DOCUMENTATION**

State of California  
Division of Occupational Safety and Health  
**Certified Asbestos Consultant**



**Michael S Cushner**

Name

Certification No. 11-4711

Expires on 07/20/14

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related  
Construction  
Certificate

Certificate  
Type

Expiration  
Date



Inspector/Assessor 09/26/2014

Project Monitor 09/26/2014



**Michael S. Cushner**

ID # **16953**

State of California  
Division of Occupational Safety and Health  
**Certified Asbestos Consultant**

**Andrew B Hoyer**



Name

Certification No. 05-3837

Expires on 07/21/14

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

| Lead-Related Construction Certificate   | Certificate Type    | Expiration Date |
|---|---------------------|-----------------|
|  | Sampling Technician | 01/09/2015      |

**Pedro Rodriguez** ID #: **23793**

*Note: The background of the card features the California state seal with the number 26090.*

State of California  
 Division of Occupational Safety and Health  
**Certified Site Surveillance Technician**

**Pedro Rodriguez-Mendez**

| Name   |
|--|
|  |
| Certification No <u>13-5109</u>  |
| Expires on <u>01/15/15</u>   |

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related  
Construction  
Certificate

Certificate  
Type

Expiration  
Date

Sampling Technician 02/25/2015



Patrick J. Cullip

ID #: 24783

**APPENDIX C**

**ASBESTOS ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY RECORDS**

**EMSL Analytical, Inc.**

706 Galin Street, Kernersville, NC 27284

Phone/Fax: (336) 992-1025 / (336) 992-4175

<http://www.EMSL.com>[greensborolab@emsl.com](mailto:greensborolab@emsl.com)

EMSL Order: 021401743

CustomerID: 32nim50

CustomerPO:

ProjectID:

Attn: **Michael Cushner**  
**Ninyo & Moore**  
**475 Goddard**  
**Suite 200**  
**Irvine, CA 92618**

Phone: (949) 753-7070  
 Fax:  
 Received: 04/07/14 10:15 AM  
 Analysis Date: 4/7/2014  
 Collected:

Project: 2091200001 Belmont Pool Facility 4000 East Olympic Plaza Long Beach CA

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description           | Appearance                                      | Non-Asbestos                                |  | Asbestos      |
|----------------------------------|-----------------------|---|---|--|---------------|
|                                  |                       |   | % Fibrous                                   | % Non-Fibrous                                    | % Type        |
| 01-Skim Coat<br>021401743-0001   | Wall/ Ceiling Plaster | White/Grayish<br>Non-Fibrous<br>Homogeneous     |   | 10% Quartz<br>90% Non-fibrous (other)            | None Detected |
| 01-Rough Coat<br>021401743-0001A | Wall/ Ceiling Plaster | Gray/Tan<br>Non-Fibrous<br>Heterogeneous        | 3% Cellulose<br><1% Glass                   | 15% Quartz<br>5% Mica<br>77% Non-fibrous (other) | None Detected |
| 02<br>021401743-0002             | Wall/ Ceiling Plaster | Gray/Beige<br>Non-Fibrous<br>Heterogeneous      |   | 10% Quartz<br>90% Non-fibrous (other)            | None Detected |
| 03<br>021401743-0003             | Wall/ Ceiling Plaster | Gray/Tan/White<br>Non-Fibrous<br>Heterogeneous  | <1% Cellulose                               | 10% Quartz<br>2% Mica<br>88% Non-fibrous (other) | None Detected |
| 04<br>021401743-0004             | Wall/ Ceiling Plaster | Gray/Tan/White<br>Non-Fibrous<br>Heterogeneous  | <1% Cellulose<br><1% Synthetic<br><1% Glass | 10% Quartz<br>2% Mica<br>88% Non-fibrous (other) | None Detected |
| 05<br>021401743-0005             | Wall/ Ceiling Plaster | Gray/White/Blue<br>Non-Fibrous<br>Heterogeneous | <1% Cellulose<br><1% Fibrous (other)        | 10% Quartz<br>1% Mica<br>89% Non-fibrous (other) | None Detected |
| 06-Skim Coat<br>021401743-0006   | Wall/ Ceiling Plaster | White/Grayish<br>Non-Fibrous<br>Heterogeneous   |   | 15% Quartz<br>85% Non-fibrous (other)            | None Detected |

Analyst(s)

Stephen Bennett (10)

Scott Combs (52)

Stephen Bennett, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from 04/07/2014 15:29:08

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description                         | Appearance                                  | Non-Asbestos              |  | Asbestos      |
|----------------------------------|-------------------------------------|---|---------------------------|--|---------------|
|                                  |                                     |   | % Fibrous                 | % Non-Fibrous  | % Type        |
| 06-Rough Coat<br>021401743-0006A | Wall/ Ceiling Plaster               | Gray/Tan<br>Non-Fibrous<br>Heterogeneous    | 3% Cellulose<br><1% Glass | 15% Quartz<br>2% Mica<br>80% Non-fibrous (other)       | None Detected |
| 07<br>021401743-0007             | Wall/ Ceiling Plaster               | Gray/White<br>Non-Fibrous<br>Heterogeneous  | <1% Cellulose             | 2% Mica<br>30% Ca Carbonate<br>68% Non-fibrous (other) | None Detected |
| 08<br>021401743-0008             | Button Board                        | Brown/Gray<br>Fibrous<br>Heterogeneous      | 8% Cellulose              | 92% Non-fibrous (other)                                | None Detected |
| 09-Wrap<br>021401743-0009        | Cloth Wrapped FiberGlass Insulation | Tan/Cream<br>Fibrous<br>Heterogeneous       | 90% Cellulose             | 10% Non-fibrous (other)                                | None Detected |
| 09-Insulation<br>021401743-0009A | Cloth Wrapped FiberGlass Insulation | Yellow<br>Fibrous<br>Homogeneous            | 100% Glass                | 0% Non-fibrous (other)                                 | None Detected |
| 10-Wrap<br>021401743-0010        | Cloth Wrapped FiberGlass Insulation | Tan/Beige/Cream<br>Fibrous<br>Heterogeneous | 55% Cellulose<br>2% Glass | 43% Non-fibrous (other)                                | None Detected |
| 10-Insulation<br>021401743-0010A | Cloth Wrapped FiberGlass Insulation | Yellow<br>Fibrous<br>Homogeneous            | 100% Glass                | 0% Non-fibrous (other)                                 | None Detected |
| 11-Wrap<br>021401743-0011        | Cloth Wrapped FiberGlass Insulation | Tan/Beige<br>Fibrous<br>Heterogeneous       | 85% Cellulose             | 15% Non-fibrous (other)                                | None Detected |

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 Scott Combs (52)

  
 Stephen Bennett, Laboratory Manager  
 or other approved signatory

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description                               | Appearance                                   | Non-Asbestos                   |                          | Asbestos                     |
|----------------------------------|---|--|--------------------------------|--------------------------|------------------------------|
|                                  |   |  | % Fibrous                      | % Non-Fibrous            | % Type                       |
| 11-Insulation<br>021401743-0011A | Cloth Wrapped<br>FiberGlass<br>Insulation | Yellow<br>Fibrous<br>Homogeneous             | 99% Min. Wool                  | 1% Non-fibrous (other)   | None Detected                |
| 12<br>021401743-0012             | Elbow Cloth<br>Wrapped Insulation         | Gray/White<br>Fibrous<br>Heterogeneous       | 40% Min. Wool<br>15% Cellulose | 40% Non-fibrous (other)  | 5% Chrysotile                |
| 13<br>021401743-0013             | Elbow Cloth<br>Wrapped Insulation         |  |                                |                          | Stop Positive (Not Analyzed) |
| 14<br>021401743-0014             | Cloth Wrapped<br>Pipe Insulation          | Tan/Orange<br>Fibrous<br>Heterogeneous       | 80% Glass<br>20% Cellulose     | 0% Non-fibrous (other)   | None Detected                |
| 15<br>021401743-0015             | Paper Pipe Silver<br>Insulation           | Tan/Silver/Beige<br>Fibrous<br>Heterogeneous | 50% Cellulose<br>10% Glass     | 40% Non-fibrous (other)  | None Detected                |
| 16<br>021401743-0016             | Acoustic Ceiling<br>Tile                  | Gray/White<br>Fibrous<br>Heterogeneous       | 85% Min. Wool<br><1% Cellulose | 15% Non-fibrous (other)  | None Detected                |
| 17<br>021401743-0017             | Carpet Glue                               | Gold/Orange<br>Non-Fibrous<br>Homogeneous    | 3% Synthetic<br><1% Cellulose  | 97% Non-fibrous (other)  | None Detected                |
| 18-Cove Base<br>021401743-0018   | Vinyl Cove Base/<br>Glue                  | Black<br>Non-Fibrous<br>Homogeneous          |                                | 100% Non-fibrous (other) | None Detected                |

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Scott Combs (52)

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or other approved signatory

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|---|---|
| Attn: <b>Michael Cushner</b><br><b>Ninyo &amp; Moore</b><br><b>475 Goddard</b><br><b>Suite 200</b><br><b>Irvine, CA 92618</b> | Phone: (949) 753-7070<br>Fax:<br>Received: 04/07/14 10:15 AM<br>Analysis Date: 4/7/2014<br>Collected: |
| Project: 2091200001 Belmont Pool Facility 4000 East Olympic Plaza Long Beach CA   |   |

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                         | Description              | Appearance                                       | Non-Asbestos                   |  | Asbestos      |
|--------------------------------|--------------------------|--|--------------------------------|--|---------------|
|                                |                          |  | % Fibrous                      | % Non-Fibrous                                    | % Type        |
| 18-Mastic<br>021401743-0018A   | Vinyl Cove Base/<br>Glue | Yellow<br>Non-Fibrous<br>Homogeneous             | <1% Cellulose<br><1% Synthetic | 100% Non-fibrous (other)                         | None Detected |
| 19-Cove Base<br>021401743-0019 | Cove/ Base Glue          | Brown/Grayish<br>Non-Fibrous<br>Homogeneous      |                                | 15% Quartz<br>85% Non-fibrous (other)            | None Detected |
| 19-Mastic<br>021401743-0019A   | Cove/ Base Glue          | Yellow/Gold<br>Non-Fibrous<br>Homogeneous        | <1% Cellulose                  | 100% Non-fibrous (other)                         | None Detected |
| 20<br>021401743-0020           | Sidewalk Caulk           | Brown/Gray<br>Non-Fibrous<br>Heterogeneous       | <1% Cellulose<br><1% Synthetic | 100% Non-fibrous (other)                         | None Detected |
| 21<br>021401743-0021           | Stone Concrete<br>Panels | Gray/Green/Beige<br>Non-Fibrous<br>Heterogeneous | <1% Cellulose                  | 20% Quartz<br>1% Mica<br>79% Non-fibrous (other) | None Detected |
| 22<br>021401743-0022           | Stone Concrete<br>Panels | Gray/Tan<br>Non-Fibrous<br>Heterogeneous         |                                | 15% Quartz<br>1% Mica<br>84% Non-fibrous (other) | None Detected |
| 23<br>021401743-0023           | Stone Concrete<br>Panels | Gray/Beige<br>Non-Fibrous<br>Heterogeneous       |                                | 15% Quartz<br>2% Mica<br>83% Non-fibrous (other) | None Detected |
| 24-Mat<br>021401743-0024       | Dive Mat/ Glue           | Gray/Blue<br>Non-Fibrous<br>Heterogeneous        | <1% Cellulose                  | 100% Non-fibrous (other)                         | None Detected |

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 or other approved signatory

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| Sample                     | Description             | Appearance                               | Non-Asbestos                  |                          | Asbestos      |
|----------------------------|-------------------------|--|-------------------------------|--------------------------|---------------|
|                            |                         |  | % Fibrous                     | % Non-Fibrous            | % Type        |
| 24-Glue<br>021401743-0024A | Dive Mat/ Glue          | Yellow<br>Non-Fibrous<br>Homogeneous     | <1% Cellulose                 | 100% Non-fibrous (other) | None Detected |
| 25<br>021401743-0025       | Acoustic Ceiling Panels | Beige/Orange<br>Fibrous<br>Heterogeneous | 90% Glass                     | 10% Non-fibrous (other)  | None Detected |
| 26<br>021401743-0026       | Acoustic Ceiling Panels | Gray/White<br>Fibrous<br>Heterogeneous   | 65% Min. Wool<br>1% Cellulose | 34% Non-fibrous (other)  | None Detected |
| 27<br>021401743-0027       | Walkway Caulk           | Gray<br>Non-Fibrous<br>Homogeneous       |                               | 100% Non-fibrous (other) | None Detected |
| 28<br>021401743-0028       | Walkway Caulk           | White<br>Non-Fibrous<br>Homogeneous      |                               | 100% Non-fibrous (other) | None Detected |
| 29<br>021401743-0029       | Black Tar               | Black<br>Non-Fibrous<br>Homogeneous      | <1% Cellulose                 | 100% Non-fibrous (other) | None Detected |
| 30<br>021401743-0030       | Black Tar               | Black<br>Non-Fibrous<br>Homogeneous      | <1% Cellulose                 | 100% Non-fibrous (other) | None Detected |
| 31<br>021401743-0031       | Black Tar               | Black<br>Non-Fibrous<br>Homogeneous      | <1% Cellulose                 | 100% Non-fibrous (other) | None Detected |

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| Sample                         | Description           | Appearance                                     | Non-Asbestos  |  | Asbestos      |
|--------------------------------|-----------------------|--|---------------|--|---------------|
|                                |                       |  | % Fibrous     | % Non-Fibrous                                    | % Type        |
| 32<br>021401743-0032           | Wall/ Ceiling Plaster | Gray/Tan<br>Non-Fibrous<br>Heterogeneous       |               | 15% Quartz<br>1% Mica<br>84% Non-fibrous (other) | None Detected |
| 33<br>021401743-0033           | Wall/ Ceiling Plaster | White/Beige<br>Non-Fibrous<br>Heterogeneous    |               | 20% Quartz<br>80% Non-fibrous (other)            | None Detected |
| 34<br>021401743-0034           | Wall/ Ceiling Plaster | Gray/Tan/White<br>Non-Fibrous<br>Heterogeneous |               | 15% Quartz<br>1% Mica<br>84% Non-fibrous (other) | None Detected |
| 35<br>021401743-0035           | Wall/ Ceiling Plaster | Gray/Tan/White<br>Non-Fibrous<br>Heterogeneous |               | 15% Quartz<br>1% Mica<br>84% Non-fibrous (other) | None Detected |
| 36<br>021401743-0036           | Wall/ Ceiling Plaster | Gray/White<br>Non-Fibrous<br>Heterogeneous     |               | 10% Quartz<br>2% Mica<br>88% Non-fibrous (other) | None Detected |
| 37-Cove Base<br>021401743-0037 | Cove Base/ Glue       | Black/Grayish<br>Non-Fibrous<br>Homogeneous    |               | 5% Quartz<br>95% Non-fibrous (other)             | None Detected |
| 37-Mastic<br>021401743-0037A   | Cove Base/ Glue       | Tan/Beige<br>Non-Fibrous<br>Homogeneous        | <1% Cellulose | 100% Non-fibrous (other)                         | None Detected |

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description                       | Appearance                                  | Non-Asbestos  |                                       | Asbestos                     |
|----------------------------------|-----------------------------------|---|---------------|---------------------------------------|------------------------------|
|                                  |                                   |   | % Fibrous     | % Non-Fibrous                         | % Type                       |
| 38-Cove Base<br>021401743-0038   | Cove Base/ Glue                   | Gray<br>Non-Fibrous<br>Homogeneous          |               | 10% Quartz<br>90% Non-fibrous (other) | None Detected                |
| 38-Mastic<br>021401743-0038A     | Cove Base/ Glue                   | Yellow/Orange<br>Non-Fibrous<br>Homogeneous | <1% Cellulose | 100% Non-fibrous (other)              | None Detected                |
| 39<br>021401743-0039             | Green Gasket                      | Blue/Green<br>Non-Fibrous<br>Homogeneous    | 20% Cellulose | 80% Non-fibrous (other)               | None Detected                |
| 40<br>021401743-0040             | Elbow Cloth<br>Wrapped Insulation |   |               |                                       | Stop Positive (Not Analyzed) |
| 41<br>021401743-0041             | Elbow Cloth<br>Wrapped Insulation |   |               |                                       | Stop Positive (Not Analyzed) |
| 42<br>021401743-0042             | Elbow Cloth<br>Wrapped Insulation |   |               |                                       | Stop Positive (Not Analyzed) |
| 43-Wrap<br>021401743-0043        | Cloth Wrapped<br>Pipe Insulation  | Tan/Beige<br>Fibrous<br>Heterogeneous       | 80% Cellulose | 20% Non-fibrous (other)               | None Detected                |
| 43-Insulation<br>021401743-0043A | Cloth Wrapped<br>Pipe Insulation  | Orange<br>Fibrous<br>Homogeneous            | 100% Glass    | 0% Non-fibrous (other)                | None Detected                |
| 44-Wrap<br>021401743-0044        | Cloth Wrapped<br>Pipe Insulation  | Tan/Beige<br>Fibrous<br>Heterogeneous       | 85% Cellulose | 15% Non-fibrous (other)               | None Detected                |

Analyst(s)  
 \_\_\_\_\_  
 Stephen Bennett (10)  
 Scott Combs (52)

  
 Stephen Bennett, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from 04/07/2014 15:29:08

**EMSL Analytical, Inc.**

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| EMSL Order: | 021401743 |
| CustomerID: | 32nim50   |
| CustomerPO: |           |
| ProjectID:  |           |

Attn: **Michael Cushner**  
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Phone: (949) 753-7070  
 Fax:  
 Received: 04/07/14 10:15 AM  
 Analysis Date: 4/7/2014  
 Collected:

Project: 2091200001 Belmont Pool Facility 4000 East Olympic Plaza Long Beach CA

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description                   | Appearance                                | Non-Asbestos                   |                         | Asbestos      |
|----------------------------------|-------------------------------|---|--------------------------------|-------------------------|---------------|
|                                  |                               |   | % Fibrous                      | % Non-Fibrous           | % Type        |
| 44-Insulation<br>021401743-0044A | Cloth Wrapped Pipe Insulation | Orange Fibrous Homogeneous                | 100% Glass                     | 0% Non-fibrous (other)  | None Detected |
| 45-Wrap<br>021401743-0045        | Cloth Wrapped Pipe Insulation | White/Beige Fibrous Heterogeneous         | 60% Cellulose                  | 40% Non-fibrous (other) | None Detected |
| 45-Insulation<br>021401743-0045A | Cloth Wrapped Pipe Insulation | White/Silver/Yellow Fibrous Heterogeneous | 15% Cellulose<br>70% Min. Wool | 15% Non-fibrous (other) | None Detected |
| 46<br>021401743-0046             | Tan Bridging                  | Yellow/Beige/Orange Fibrous Heterogeneous | 60% Glass<br><1% Cellulose     | 40% Non-fibrous (other) | None Detected |
| 47<br>021401743-0047             | Tan Bridging                  | Yellow/Beige/Orange Fibrous Heterogeneous | 25% Glass                      | 75% Non-fibrous (other) | None Detected |
| 48<br>021401743-0048             | Tan Bridging                  | White/Yellow Fibrous Heterogeneous        | 70% Min. Wool<br><1% Cellulose | 30% Non-fibrous (other) | None Detected |
| 49-Wrap<br>021401743-0049        | Paper Pipe Insulation         | White/Silver/Beige Fibrous Heterogeneous  | 50% Cellulose<br>10% Glass     | 40% Non-fibrous (other) | None Detected |
| 49-Insulation<br>021401743-0049A | Paper Pipe Insulation         | Yellow Fibrous Homogeneous                | 100% Glass                     | 0% Non-fibrous (other)  | None Detected |

Analyst(s)  
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 Stephen Bennett, Laboratory Manager  
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 Fax:  
 Received: 04/07/14 10:15 AM  
 Analysis Date: 4/7/2014  
 Collected:

Project: 2091200001 Belmont Pool Facility 4000 East Olympic Plaza Long Beach CA

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample               | Description | Appearance                                       | Non-Asbestos                   |                         | Asbestos      |
|----------------------|-------------|--|--------------------------------|-------------------------|---------------|
|                      |             |  | % Fibrous                      | % Non-Fibrous           | % Type        |
| 50<br>021401743-0050 | Bridging    | White/Yellow<br>Fibrous<br>Heterogeneous         | 40% Glass                      | 60% Non-fibrous (other) | None Detected |
| 51<br>021401743-0051 | Bridging    | White/Yellow/Grayish<br>Fibrous<br>Heterogeneous | 80% Glass                      | 20% Non-fibrous (other) | None Detected |
| 52<br>021401743-0052 | Bridging    | White/Yellow<br>Fibrous<br>Heterogeneous         | <1% Cellulose<br>15% Min. Wool | 85% Non-fibrous (other) | None Detected |

Analyst(s)

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Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from 04/07/2014 15:29:08



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Fax:  
Received: 04/08/14 8:10 AM  
Analysis Date: 4/10/2014  
Collected: 3/31/2014

Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                          | Description                              | Appearance                          | Non-Asbestos |                          | Asbestos      |
|---------------------------------|--|-------------------------------------|--------------|--------------------------|---------------|
|                                 |  |                                     | % Fibrous    | % Non-Fibrous            | % Type        |
| 53-Texture<br>121401512-0001    | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |
| 53-Skim Coat<br>121401512-0001A | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |
| 53-Base Coat<br>121401512-0001B | Wall & Ceiling Plaster (Coarse & Smooth) | Beige<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |
| 54-Skim Coat<br>121401512-0002  | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |
| 54-Base Coat<br>121401512-0002A | Wall & Ceiling Plaster (Coarse & Smooth) | Beige<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |
| 55-Skim Coat<br>121401512-0003  | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |
| 55-Base Coat<br>121401512-0003A | Wall & Ceiling Plaster (Coarse & Smooth) | Beige<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |
| 56-Skim Coat<br>121401512-0004  | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |

Analyst(s)  
Bradley Orlowski (87)  
Cheryl Replogle (59)

*Michelle Wilson*  
Michelle Wilson, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

Initial report from 04/10/2014 17:44:45

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 Received: 04/08/14 8:10 AM  
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 Collected: 3/31/2014

Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                          | Description                              | Appearance                              | Non-Asbestos  |                                      | Asbestos      |
|---------------------------------|--|---|---------------|--------------------------------------|---------------|
|                                 |  |   | % Fibrous     | % Non-Fibrous                        | % Type        |
| 56-Base Coat<br>121401512-0004A | Wall & Ceiling Plaster (Coarse & Smooth) | Beige<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)             | None Detected |
| 57-Skim Coat<br>121401512-0005  | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)             | None Detected |
| 57-Base Coat<br>121401512-0005A | Wall & Ceiling Plaster (Coarse & Smooth) | Beige<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)             | None Detected |
| 58-Skim Coat<br>121401512-0006  | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)             | None Detected |
| 58-Base Coat<br>121401512-0006A | Wall & Ceiling Plaster (Coarse & Smooth) | Gray<br>Non-Fibrous<br>Homogeneous      |               | 100% Non-fibrous (other)             | None Detected |
| 59-Skim Coat<br>121401512-0007  | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)             | None Detected |
| 59-Base Coat<br>121401512-0007A | Wall & Ceiling Plaster (Coarse & Smooth) | Gray<br>Non-Fibrous<br>Homogeneous      |               | 100% Non-fibrous (other)             | None Detected |
| 60<br>121401512-0008            | Button Board                             | Brown/White<br>Fibrous<br>Heterogeneous | 10% Cellulose | 85% Gypsum<br>5% Non-fibrous (other) | None Detected |

## Analyst(s)

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Cheryl Replogle (59)

Michelle Wilson, Laboratory Manager  
or other approved signatory

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Initial report from 04/10/2014 17:44:45

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Phone: (949) 753-7070  
 Fax:  
 Received: 04/08/14 8:10 AM  
 Analysis Date: 4/10/2014  
 Collected: 3/31/2014

Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                                      | Description                            | Appearance                                | Non-Asbestos              |                                      | Asbestos             |
|---|--|---|---------------------------|--------------------------------------|----------------------|
|   |  |   | % Fibrous                 | % Non-Fibrous                        | % Type               |
| 61-Joint Compound<br><i>121401512-0009</i>  | Drywall & Joint Compound               | White<br>Non-Fibrous<br>Homogeneous       |                           | 100% Non-fibrous (other)             | <b>None Detected</b> |
| 61-Drywall<br><i>121401512-0009A</i>        | Drywall & Joint Compound               | Brown/White<br>Fibrous<br>Heterogeneous   | 10% Cellulose<br>2% Glass | 85% Gypsum<br>3% Non-fibrous (other) | <b>None Detected</b> |
| 62-Joint Compound<br><i>121401512-0010</i>  | Drywall & Joint Compound               | White<br>Non-Fibrous<br>Homogeneous       |                           | 100% Non-fibrous (other)             | <b>None Detected</b> |
| 62-Drywall<br><i>121401512-0010A</i>        | Drywall & Joint Compound               | Brown/White<br>Fibrous<br>Heterogeneous   | 10% Cellulose<br>2% Glass | 85% Gypsum<br>3% Non-fibrous (other) | <b>None Detected</b> |
| 63-Tape<br><i>121401512-0011</i>            | Drywall & Joint Compound               | Yellow<br>Fibrous<br>Homogeneous          | 99% Glass                 | 1% Non-fibrous (other)               | <b>None Detected</b> |
| No Drywall present.                         |  |   |                           |                                      |                      |
| 63-Joint Compound<br><i>121401512-0011A</i> | Drywall & Joint Compound               | White<br>Non-Fibrous<br>Homogeneous       |                           | 100% Non-fibrous (other)             | <b>None Detected</b> |
| 64<br><i>121401512-0012</i>                 | 2'x4' Acoustic Ceiling Panel (Drywall) | Brown/White<br>Fibrous<br>Heterogeneous   | 10% Cellulose             | 85% Gypsum<br>5% Non-fibrous (other) | <b>None Detected</b> |
| 65<br><i>121401512-0013</i>                 | Green Flooring Resin                   | White/Green<br>Non-Fibrous<br>Homogeneous |                           | 100% Non-fibrous (other)             | <b>None Detected</b> |

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 Fax:  
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 Analysis Date: 4/10/2014  
 Collected: 3/31/2014

Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                             | Description                    | Appearance                                | Non-Asbestos  |                          | Asbestos      |
|------------------------------------|--------------------------------|---|---------------|--------------------------|---------------|
|                                    |                                |   | % Fibrous     | % Non-Fibrous            | % Type        |
| 66<br>121401512-0014               | Green Flooring Resin           | White/Green<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (other) | None Detected |
| 67<br>121401512-0015               | Green Flooring Resin           | White/Green<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (other) | None Detected |
| 68-Pink Plaster<br>121401512-0016  | Exterior Pink Wall Plaster     | Pink<br>Non-Fibrous<br>Homogeneous        |               | 100% Non-fibrous (other) | None Detected |
| 68-Gray Plaster<br>121401512-0016A | Exterior Pink Wall Plaster     | Gray<br>Non-Fibrous<br>Homogeneous        |               | 100% Non-fibrous (other) | None Detected |
| 69-Pink Plaster<br>121401512-0017  | Exterior Pink Wall Plaster     | Pink<br>Non-Fibrous<br>Homogeneous        |               | 100% Non-fibrous (other) | None Detected |
| 69-Gray Plaster<br>121401512-0017A | Exterior Pink Wall Plaster     | Gray<br>Non-Fibrous<br>Homogeneous        |               | 100% Non-fibrous (other) | None Detected |
| 70-Pink Plaster<br>121401512-0018  | Exterior Pink Wall Plaster     | Pink<br>Non-Fibrous<br>Homogeneous        |               | 100% Non-fibrous (other) | None Detected |
| 71-Wrap<br>121401512-0019          | Cloth Wrapped Elbow Insulation | Tan<br>Fibrous<br>Homogeneous             | 99% Cellulose | 1% Non-fibrous (other)   | None Detected |

Analyst(s)

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Michelle Wilson, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

Initial report from 04/10/2014 17:44:45



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| CustomerID: | 32nim50   |
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| ProjectID:  |           |

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 Received: 04/08/14 8:10 AM  
 Analysis Date: 4/10/2014  
 Collected: 3/31/2014

Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample  | Description                          | Appearance                       | Non-Asbestos              |                         | Asbestos                     |
|---|--------------------------------------|----------------------------------|---------------------------|-------------------------|------------------------------|
|   |                                      |                                  | % Fibrous                 | % Non-Fibrous           | % Type                       |
| 71-Insulation<br><small>121401512-0019A</small> | Cloth Wrapped Elbow Insulation       | Gray Fibrous Homogeneous         | 5% Min. Wool              | 90% Non-fibrous (other) | 5% Chrysotile                |
| 72-Wrap<br><small>121401512-0020</small>        | Cloth Wrapped Elbow Insulation       | Tan Fibrous Homogeneous          | 99% Cellulose             | 1% Non-fibrous (other)  | None Detected                |
| 72-Insulation<br><small>121401512-0020A</small> | Cloth Wrapped Elbow Insulation       |                                  |                           |                         | Stop Positive (Not Analyzed) |
| 73-Wrap<br><small>121401512-0021</small>        | Cloth Wrapped Pipe End Insulation    | Tan Fibrous Homogeneous          | 99% Cellulose             | 1% Non-fibrous (other)  | None Detected                |
| 73-Insulation<br><small>121401512-0021A</small> | Cloth Wrapped Pipe End Insulation    | Gray Fibrous Homogeneous         |                           | 95% Non-fibrous (other) | 5% Chrysotile                |
| 74-Wrap<br><small>121401512-0022</small>        | Cloth Wrapped Pipe Insulation        | Tan Fibrous Homogeneous          | 99% Cellulose             | 1% Non-fibrous (other)  | None Detected                |
| 74-Insulation<br><small>121401512-0022A</small> | Cloth Wrapped Pipe Insulation        | Yellow Fibrous Homogeneous       | 99% Glass                 | 1% Non-fibrous (other)  | None Detected                |
| 75<br><small>121401512-0023</small>             | Cloth / Silver Paper Pipe Insulation | Tan/Silver Fibrous Heterogeneous | 50% Cellulose<br>5% Glass | 45% Non-fibrous (other) | None Detected                |

Analyst(s)  
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 Michelle Wilson, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

Initial report from 04/10/2014 17:44:45



# EMSL Analytical, Inc.

3356 West Catalina Drive, Phoenix, AZ 85017

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|             |           |
|-------------|-----------|
| EMSL Order: | 121401512 |
| CustomerID: | 32nim50   |
| CustomerPO: |           |
| ProjectID:  |           |

Attn: **Michael Cushner**  
**Ninyo & Moore**  
**475 Goddard**  
**Suite 200**  
**Irvine, CA 92618**

Phone: (949) 753-7070  
 Fax:  
 Received: 04/08/14 8:10 AM  
 Analysis Date: 4/10/2014  
 Collected: 3/31/2014

Project: Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description                                     | Appearance                          | Non-Asbestos                  |  | Asbestos      |
|----------------------------------|---|-------------------------------------|-------------------------------|--|---------------|
|                                  |   |                                     | % Fibrous                     | % Non-Fibrous                          | % Type        |
| 76<br>121401512-0024             | Cloth / Silver Paper Pipe Insulation            | White/Silver Fibrous Heterogeneous  | 50% Cellulose<br>5% Glass     | 45% Non-fibrous (other)                | None Detected |
| 77-Wrap<br>121401512-0025        | Painted Cloth Wrap Pipe Insulation              | Tan Fibrous Homogeneous             | 99% Cellulose                 | 1% Non-fibrous (other)                 | None Detected |
| 77-Insulation<br>121401512-0025A | Painted Cloth Wrap Pipe Insulation              | Yellow Fibrous Homogeneous          | 99% Glass                     | 1% Non-fibrous (other)                 | None Detected |
| 78<br>121401512-0026             | Cloth AC Duct Tape                              | White Fibrous Homogeneous           | 99% Cellulose                 | 1% Non-fibrous (other)                 | None Detected |
| 79<br>121401512-0027             | 1'x1' Acoustic Ceiling Tile W/Holes             | Brown/Tan Fibrous Heterogeneous     | 75% Cellulose<br>5% Min. Wool | 10% Perlite<br>10% Non-fibrous (other) | None Detected |
| 80<br>121401512-0028             | 1'x1' Acoustic Ceiling Tile W/Crevices          | Tan/White Fibrous Heterogeneous     | 90% Min. Wool                 | 10% Non-fibrous (other)                | None Detected |
| 81-Floor Tile<br>121401512-0029  | 12" Floor Tile White W/Blk Streaks/Black Mastic | White/Black Non-Fibrous Homogeneous |                               | 97% Non-fibrous (other)                | 3% Chrysotile |
| 81-Mastic<br>121401512-0029A     | 12" Floor Tile White W/Blk Streaks/Black Mastic | Black Non-Fibrous Homogeneous       |                               | 94% Non-fibrous (other)                | 6% Chrysotile |

Analyst(s)  
 \_\_\_\_\_  
 Bradley Orlowski (87)  
 Cheryl Replogle (59)

*Michelle Wilson*  
 \_\_\_\_\_  
 Michelle Wilson, Laboratory Manager  
 or other approved signatory

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Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description  | Appearance                              | Non-Asbestos  |                          | Asbestos                     |
|----------------------------------|--|---|---------------|--------------------------|------------------------------|
|                                  |  |   | % Fibrous     | % Non-Fibrous            | % Type                       |
| 82-Floor Tile<br>121401512-0030  | 12" Floor Tile<br>White W/Blk<br>Streaks/Black<br>Mastic |   |               |                          | Stop Positive (Not Analyzed) |
| 82-Mastic<br>121401512-0030A     | 12" Floor Tile<br>White W/Blk<br>Streaks/Black<br>Mastic |   |               |                          | Stop Positive (Not Analyzed) |
| 83-Floor Tile<br>121401512-0031  | 12" Floor Tile<br>White W/Blk<br>Streaks/Black<br>Mastic |   |               |                          | Stop Positive (Not Analyzed) |
| 83-Mastic<br>121401512-0031A     | 12" Floor Tile<br>White W/Blk<br>Streaks/Black<br>Mastic |   |               |                          | Stop Positive (Not Analyzed) |
| 84-Coating<br>121401512-0032     | Roof Core  | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected                |
| 84-Insulation<br>121401512-0032A | Roof Core  | White<br>Fibrous<br>Homogeneous         | 99% Synthetic | 1% Non-fibrous (other)   | None Detected                |
| 84-Shingle 1<br>121401512-0032B  | Roof Core  | Brown/White<br>Fibrous<br>Heterogeneous | 30% Cellulose | 70% Non-fibrous (other)  | None Detected                |
| 84-Shingle 2<br>121401512-0032C  | Roof Core  | White/Black<br>Fibrous<br>Heterogeneous | 10% Glass     | 90% Non-fibrous (other)  | None Detected                |

## Analyst(s)

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Cheryl Replogle (59)

Michelle Wilson, Laboratory Manager  
or other approved signatory

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| Project: <b>Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001</b>                                    |   |

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                                    | Description | Appearance                              | Non-Asbestos  |                          | Asbestos      |
|---|-------------|---|---------------|--------------------------|---------------|
|   |             |   | % Fibrous     | % Non-Fibrous            | % Type        |
| 84-Felt<br><i>121401512-0032D</i>         | Roof Core   | Black<br>Fibrous<br>Homogeneous         | 80% Cellulose | 20% Non-fibrous (other)  | None Detected |
| 84-Fiberboard<br><i>121401512-0032E</i>   | Roof Core   | Tan<br>Fibrous<br>Homogeneous           | 99% Cellulose | 1% Non-fibrous (other)   | None Detected |
| 85-Coating<br><i>121401512-0033</i>       | Roof Core   | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |
| 85-Insulation 1<br><i>121401512-0033A</i> | Roof Core   | White<br>Fibrous<br>Homogeneous         | 99% Synthetic | 1% Non-fibrous (other)   | None Detected |
| 85-Insulation 2<br><i>121401512-0033B</i> | Roof Core   | Yellow<br>Fibrous<br>Homogeneous        | 99% Glass     | 1% Non-fibrous (other)   | None Detected |
| 85-Shingle<br><i>121401512-0033C</i>      | Roof Core   | White/Black<br>Fibrous<br>Heterogeneous | 10% Glass     | 90% Non-fibrous (other)  | None Detected |
| 85-Felt<br><i>121401512-0033D</i>         | Roof Core   | Black<br>Fibrous<br>Homogeneous         | 80% Cellulose | 20% Non-fibrous (other)  | None Detected |
| 86-Coating<br><i>121401512-0034</i>       | Roof Core   | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |

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 Cheryl Replogle (59)

*Michelle Wilson*  
 \_\_\_\_\_  
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Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description        | Appearance                              | Non-Asbestos  |                          | Asbestos                     |
|----------------------------------|--------------------|---|---------------|--------------------------|------------------------------|
|                                  |                    |   | % Fibrous     | % Non-Fibrous            | % Type                       |
| 86-Insulation<br>121401512-0034A | Roof Core          | White<br>Fibrous<br>Homogeneous         | 99% Synthetic | 1% Non-fibrous (other)   | None Detected                |
| 86-Shingle<br>121401512-0034B    | Roof Core          | White/Black<br>Fibrous<br>Heterogeneous | 10% Glass     | 90% Non-fibrous (other)  | None Detected                |
| 86-Felt<br>121401512-0034C       | Roof Core          | Black<br>Fibrous<br>Homogeneous         | 20% Glass     | 80% Non-fibrous (other)  | None Detected                |
| 86-Tar<br>121401512-0034D        | Roof Core          | Black<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected                |
| 87<br>121401512-0035             | Penetration Mastic | Gray/Black<br>Fibrous<br>Heterogeneous  |               | 94% Non-fibrous (other)  | 6% Chrysotile                |
| 88<br>121401512-0036             | Penetration Mastic |   |               |                          | Stop Positive (Not Analyzed) |
| 89<br>121401512-0037             | Penetration Mastic |   |               |                          | Stop Positive (Not Analyzed) |
| 90<br>121401512-0038             | Beige Caulking     | Beige<br>Non-Fibrous<br>Homogeneous     | 5% Synthetic  | 90% Non-fibrous (other)  | 5% Chrysotile                |
| 91<br>121401512-0039             | Gray Caulking      | Gray<br>Fibrous<br>Homogeneous          | 10% Synthetic | 90% Non-fibrous (other)  | None Detected                |

## Analyst(s)

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Michelle Wilson, Laboratory Manager  
 or other approved signatory

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Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                             | Description | Appearance                          | Non-Asbestos  |                          | Asbestos      |
|------------------------------------|-------------|-------------------------------------|---------------|--------------------------|---------------|
|                                    |             |                                     | % Fibrous     | % Non-Fibrous            | % Type        |
| 92-Coating<br>121401512-0040       | Roof Core   | White<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (other) | None Detected |
| 92-Insulation 1<br>121401512-0040A | Roof Core   | White<br>Fibrous<br>Homogeneous     | 99% Synthetic | 1% Non-fibrous (other)   | None Detected |
| 92-Insulation 2<br>121401512-0040B | Roof Core   | Yellow<br>Fibrous<br>Homogeneous    | 99% Glass     | 1% Non-fibrous (other)   | None Detected |
| 92-Shingle<br>121401512-0040C      | Roof Core   | Various<br>Fibrous<br>Heterogeneous | 10% Glass     | 90% Non-fibrous (other)  | None Detected |
| 92-Felt<br>121401512-0040D         | Roof Core   | Black<br>Fibrous<br>Homogeneous     | 80% Cellulose | 20% Non-fibrous (other)  | None Detected |
| 92-Tar<br>121401512-0040E          | Roof Core   | Black<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (other) | None Detected |
| 93-Coating<br>121401512-0041       | Roof Core   | White<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (other) | None Detected |
| 93-Insulation 1<br>121401512-0041A | Roof Core   | White<br>Fibrous<br>Homogeneous     | 99% Synthetic | 1% Non-fibrous (other)   | None Detected |

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                             | Description | Appearance                              | Non-Asbestos  |                          | Asbestos      |
|------------------------------------|-------------|---|---------------|--------------------------|---------------|
|                                    |             |   | % Fibrous     | % Non-Fibrous            | % Type        |
| 93-Insulation 2<br>121401512-0041B | Roof Core   | Yellow<br>Fibrous<br>Homogeneous        | 99% Glass     | 1% Non-fibrous (other)   | None Detected |
| 93-Shingle<br>121401512-0041C      | Roof Core   | Various<br>Fibrous<br>Heterogeneous     | 10% Glass     | 90% Non-fibrous (other)  | None Detected |
| 93-Felt<br>121401512-0041D         | Roof Core   | Black<br>Fibrous<br>Homogeneous         | 80% Cellulose | 20% Non-fibrous (other)  | None Detected |
| 93-Tar<br>121401512-0041E          | Roof Core   | Black<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |
| 94-Coating<br>121401512-0042       | Roof Core   | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |
| 94-Insulation<br>121401512-0042A   | Roof Core   | White<br>Fibrous<br>Homogeneous         | 99% Synthetic | 1% Non-fibrous (other)   | None Detected |
| 94-Shingle<br>121401512-0042B      | Roof Core   | White/Black<br>Fibrous<br>Heterogeneous | 10% Glass     | 90% Non-fibrous (other)  | None Detected |
| 94-Felt<br>121401512-0042C         | Roof Core   | Black<br>Fibrous<br>Homogeneous         | 10% Glass     | 90% Non-fibrous (other)  | None Detected |

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                            | Description        | Appearance                           | Non-Asbestos  |                          | Asbestos      |
|-----------------------------------|--------------------|--------------------------------------|---------------|--------------------------|---------------|
|                                   |                    |                                      | % Fibrous     | % Non-Fibrous            | % Type        |
| 94-Tar<br>121401512-0042D         | Roof Core          | Black<br>Non-Fibrous<br>Homogeneous  |               | 100% Non-fibrous (other) | None Detected |
| 95-Shingle<br>121401512-0043      | Roof Patch Core    | Black<br>Fibrous<br>Heterogeneous    | 10% Glass     | 90% Non-fibrous (other)  | None Detected |
| 95-Felt<br>121401512-0043A        | Roof Patch Core    | Black<br>Fibrous<br>Homogeneous      | 80% Cellulose | 20% Non-fibrous (other)  | None Detected |
| 95-Tar<br>121401512-0043B         | Roof Patch Core    | Black<br>Non-Fibrous<br>Homogeneous  |               | 100% Non-fibrous (other) | None Detected |
| 95-Foam<br>121401512-0043C        | Roof Patch Core    | Yellow<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (other) | None Detected |
| 96-Silver Paint<br>121401512-0044 | Penetration Mastic | Silver<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (other) | None Detected |
| 96-Mastic<br>121401512-0044A      | Penetration Mastic | Black<br>Non-Fibrous<br>Homogeneous  |               | 100% Non-fibrous (other) | None Detected |
| 97<br>121401512-0045              | Penetration Mastic | Black<br>Non-Fibrous<br>Homogeneous  |               | 100% Non-fibrous (other) | None Detected |

Analyst(s)

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Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

Initial report from 04/10/2014 17:44:45

**EMSL Analytical, Inc.**

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EMSL Order: 121401512

CustomerID: 32nim50

CustomerPO:

ProjectID:

Attn: **Michael Cushner**  
**Ninyo & Moore**  
**475 Goddard**  
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Phone: (949) 753-7070  
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 Received: 04/08/14 8:10 AM  
 Analysis Date: 4/10/2014  
 Collected: 3/31/2014

Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                            | Description        | Appearance                                 | Non-Asbestos  |                          | Asbestos      |
|-----------------------------------|--------------------|--|---------------|--------------------------|---------------|
|                                   |                    |  | % Fibrous     | % Non-Fibrous            | % Type        |
| 98<br>121401512-0046              | Penetration Mastic | Gray/Black<br>Fibrous<br>Homogeneous       |               | 95% Non-fibrous (other)  | 5% Chrysotile |
| 99<br>121401512-0047              | Beige Caulking     | Beige<br>Fibrous<br>Homogeneous            | 5% Synthetic  | 90% Non-fibrous (other)  | 5% Chrysotile |
| 100<br>121401512-0048             | Gray Caulking      | Gray/Black<br>Non-Fibrous<br>Heterogeneous |               | 93% Non-fibrous (other)  | 7% Chrysotile |
| 101-Coating<br>121401512-0049     | Roof Core          | White<br>Non-Fibrous<br>Homogeneous        |               | 100% Non-fibrous (other) | None Detected |
| 101-Insulation<br>121401512-0049A | Roof Core          | White<br>Fibrous<br>Homogeneous            | 99% Synthetic | 1% Non-fibrous (other)   | None Detected |
| 101-Shingle<br>121401512-0049B    | Roof Core          | Brown/White<br>Fibrous<br>Heterogeneous    | 10% Glass     | 90% Non-fibrous (other)  | None Detected |
| 101-Felt<br>121401512-0049C       | Roof Core          | Black<br>Fibrous<br>Homogeneous            | 80% Cellulose | 20% Non-fibrous (other)  | None Detected |
| 101-Tar<br>121401512-0049D        | Roof Core          | Black<br>Non-Fibrous<br>Homogeneous        |               | 100% Non-fibrous (other) | None Detected |

## Analyst(s)

Bradley Orlowski (87)

Cheryl Replogle (59)

Michelle Wilson, Laboratory Manager  
or other approved signatory

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Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                                     | Description | Appearance                              | Non-Asbestos  |                          | Asbestos      |
|--|-------------|---|---------------|--------------------------|---------------|
|  |             |   | % Fibrous     | % Non-Fibrous            | % Type        |
| 102-Coating<br><i>121401512-0050</i>       | Roof Core   | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |
| 102-Insulation 1<br><i>121401512-0050A</i> | Roof Core   | White<br>Fibrous<br>Homogeneous         | 99% Synthetic | 1% Non-fibrous (other)   | None Detected |
| 102-Insulation 2<br><i>121401512-0050B</i> | Roof Core   | Yellow<br>Fibrous<br>Homogeneous        | 99% Glass     | 1% Non-fibrous (other)   | None Detected |
| 102-Shingle<br><i>121401512-0050C</i>      | Roof Core   | Brown/White<br>Fibrous<br>Heterogeneous | 10% Glass     | 90% Non-fibrous (other)  | None Detected |
| 102-Felt<br><i>121401512-0050D</i>         | Roof Core   | Black<br>Fibrous<br>Homogeneous         | 80% Cellulose | 20% Non-fibrous (other)  | None Detected |
| 102-Tar<br><i>121401512-0050E</i>          | Roof Core   | Black<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |
| 103-Coating<br><i>121401512-0051</i>       | Roof Core   | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |
| 103-Insulation<br><i>121401512-0051A</i>   | Roof Core   | White<br>Fibrous<br>Homogeneous         | 99% Synthetic | 1% Non-fibrous (other)   | None Detected |

Analyst(s)

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or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

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Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                                | Description        | Appearance                              | Non-Asbestos  |                          | Asbestos                     |
|---------------------------------------|--------------------|---|---------------|--------------------------|------------------------------|
|                                       |                    |   | % Fibrous     | % Non-Fibrous            | % Type                       |
| 103-Shingle<br><i>121401512-0051B</i> | Roof Core          | White/Black<br>Fibrous<br>Heterogeneous | 10% Glass     | 90% Non-fibrous (other)  | None Detected                |
| 103-Felt 1<br><i>121401512-0051C</i>  | Roof Core          | Black<br>Fibrous<br>Homogeneous         | 80% Cellulose | 20% Non-fibrous (other)  | None Detected                |
| 103-Felt 2<br><i>121401512-0051D</i>  | Roof Core          | Black<br>Fibrous<br>Homogeneous         | 20% Glass     | 80% Non-fibrous (other)  | None Detected                |
| 103-Tar<br><i>121401512-0051E</i>     | Roof Core          | Black<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected                |
| 104<br><i>121401512-0052</i>          | Beige Caulking     | Beige<br>Non-Fibrous<br>Homogeneous     | 5% Synthetic  | 90% Non-fibrous (other)  | 5% Chrysotile                |
| 105<br><i>121401512-0053</i>          | Penetration Mastic | Gray/Black<br>Fibrous<br>Heterogeneous  |               | 95% Non-fibrous (other)  | 5% Chrysotile                |
| 106<br><i>121401512-0054</i>          | Penetration Mastic |   |               |                          | Stop Positive (Not Analyzed) |
| 107<br><i>121401512-0055</i>          | Penetration Mastic |   |               |                          | Stop Positive (Not Analyzed) |
| 108<br><i>121401512-0056</i>          | White Caulking     | Beige<br>Fibrous<br>Homogeneous         | 5% Synthetic  | 91% Non-fibrous (other)  | 4% Chrysotile                |

Analyst(s)  
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 Bradley Orlowski (87)  
 Cheryl Replogle (59)

*Michelle Wilson*  
 \_\_\_\_\_  
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 or other approved signatory

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Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                               | Description   | Appearance                              | Non-Asbestos  |                          | Asbestos      |
|--------------------------------------|---------------|---|---------------|--------------------------|---------------|
|                                      |               |   | % Fibrous     | % Non-Fibrous            | % Type        |
| 109-Felt<br><i>121401512-0057</i>    | Roof Core     | Black<br>Fibrous<br>Homogeneous         | 80% Cellulose | 20% Non-fibrous (other)  | None Detected |
| 109-Tar<br><i>121401512-0057A</i>    | Roof Core     | Black<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |
| 110-Shingle<br><i>121401512-0058</i> | Roof Core     | White/Black<br>Fibrous<br>Heterogeneous | 30% Cellulose | 70% Non-fibrous (other)  | None Detected |
| 111-Shingle<br><i>121401512-0059</i> | Base Flashing | White/Black<br>Fibrous<br>Heterogeneous | 30% Cellulose | 70% Non-fibrous (other)  | None Detected |
| 111-Tar<br><i>121401512-0059A</i>    | Base Flashing | Black<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected |
| 112<br><i>121401512-0060</i>         | Black Mastic  | Gray/Black<br>Fibrous<br>Heterogeneous  |               | 95% Non-fibrous (other)  | 5% Chrysotile |
| 113<br><i>121401512-0061</i>         | Gray Mastic   | Gray<br>Non-Fibrous<br>Homogeneous      |               | 100% Non-fibrous (other) | None Detected |
| 114<br><i>121401512-0062</i>         | Gray Caulking | Gray<br>Non-Fibrous<br>Homogeneous      |               | 100% Non-fibrous (other) | None Detected |

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Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                           | Description                              | Appearance                             | Non-Asbestos  |                          | Asbestos       |
|----------------------------------|--|--|---------------|--------------------------|----------------|
|                                  |  |  | % Fibrous     | % Non-Fibrous            | % Type         |
| 115<br>121401512-0063            | Gray Caulking (Old)                      | Gray<br>Fibrous<br>Homogeneous         |               | 90% Non-fibrous (other)  | 10% Chrysotile |
| 116-Shingle<br>121401512-0064    | Roof Core                                | White/Black<br>Fibrous<br>Homogeneous  | 10% Synthetic | 90% Non-fibrous (other)  | None Detected  |
| 116-Felt<br>121401512-0064A      | Roof Core                                | Black<br>Fibrous<br>Homogeneous        | 20% Glass     | 80% Non-fibrous (other)  | None Detected  |
| 117<br>121401512-0065            | Black Mastic                             | Gray/Black<br>Fibrous<br>Heterogeneous | 5% Cellulose  | 90% Non-fibrous (other)  | 5% Chrysotile  |
| 118-Skim Coat<br>121401512-0066  | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous    |               | 100% Non-fibrous (other) | None Detected  |
| 118-Base Coat<br>121401512-0066A | Wall & Ceiling Plaster (Coarse & Smooth) | Gray<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other) | None Detected  |
| 119-Skim Coat<br>121401512-0067  | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous    |               | 100% Non-fibrous (other) | None Detected  |
| 119-Base Coat<br>121401512-0067A | Wall & Ceiling Plaster (Coarse & Smooth) | Gray/Tan<br>Non-Fibrous<br>Homogeneous |               | 100% Non-fibrous (other) | None Detected  |

## Analyst(s)

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| Project: <b>Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001</b>            |   |

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                                      | Description                              | Appearance                              | Non-Asbestos                  |                                      | Asbestos      |
|---|--|---|-------------------------------|--------------------------------------|---------------|
|   |  |   | % Fibrous                     | % Non-Fibrous                        | % Type        |
| 120-Skim Coat<br><i>121401512-0068</i>      | Wall & Ceiling Plaster (Coarse & Smooth) | White<br>Non-Fibrous<br>Homogeneous     |                               | 100% Non-fibrous (other)             | None Detected |
| 120-Base Coat<br><i>121401512-0068A</i>     | Wall & Ceiling Plaster (Coarse & Smooth) | Gray<br>Non-Fibrous<br>Homogeneous      |                               | 100% Non-fibrous (other)             | None Detected |
| 121-Wrap<br><i>121401512-0069</i>           | Cloth Wrapped Pipe Insulation            | White/Blue<br>Fibrous<br>Heterogeneous  | 70% Cellulose                 | 30% Non-fibrous (other)              | None Detected |
| 121-Insulation<br><i>121401512-0069A</i>    | Cloth Wrapped Pipe Insulation            | Yellow<br>Fibrous<br>Homogeneous        | 99% Glass                     | 1% Non-fibrous (other)               | None Detected |
| 122-Wrap<br><i>121401512-0070</i>           | Cloth Wrapped Elbow Insulation           | Gray<br>Fibrous<br>Heterogeneous        | 70% Cellulose                 | 30% Non-fibrous (other)              | None Detected |
| 122-Insulation<br><i>121401512-0070A</i>    | Cloth Wrapped Elbow Insulation           | Gray<br>Fibrous<br>Homogeneous          | 90% Min. Wool<br>3% Synthetic | 5% Non-fibrous (other)               | 2% Chrysotile |
| 123-Joint Compound<br><i>121401512-0071</i> | Drywall / Joint Compound                 | White<br>Non-Fibrous<br>Homogeneous     |                               | 100% Non-fibrous (other)             | None Detected |
| 123-Drywall<br><i>121401512-0071A</i>       | Drywall / Joint Compound                 | Brown/White<br>Fibrous<br>Heterogeneous | 10% Cellulose                 | 85% Gypsum<br>5% Non-fibrous (other) | None Detected |

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample   | Description                | Appearance                              | Non-Asbestos  |                                      | Asbestos             |
|--|----------------------------|---|---------------|--------------------------------------|----------------------|
|  |                            |   | % Fibrous     | % Non-Fibrous                        | % Type               |
| 124-Joint Compound<br><small>121401512-0072</small>  | Drywall / Joint Compound   | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)             | <b>None Detected</b> |
| 124-Drywall<br><small>121401512-0072A</small>        | Drywall / Joint Compound   | Brown/White<br>Fibrous<br>Heterogeneous | 10% Cellulose | 85% Gypsum<br>5% Non-fibrous (other) | <b>None Detected</b> |
| 125-Tape<br><small>121401512-0073</small>            | Drywall / Joint Compound   | White<br>Fibrous<br>Homogeneous         | 99% Glass     | 1% Non-fibrous (other)               | <b>None Detected</b> |
| 125-Joint Compound<br><small>121401512-0073A</small> | Drywall / Joint Compound   | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)             | <b>None Detected</b> |
| 125-Drywall<br><small>121401512-0073B</small>        | Drywall / Joint Compound   | Brown/White<br>Fibrous<br>Heterogeneous | 10% Cellulose | 85% Gypsum<br>5% Non-fibrous (other) | <b>None Detected</b> |
| 126-Floor Tile<br><small>121401512-0074</small>      | 12" Blue Floor Tile & Glue | Blue<br>Non-Fibrous<br>Homogeneous      |               | 100% Non-fibrous (other)             | <b>None Detected</b> |
| 126-Glue<br><small>121401512-0074A</small>           | 12" Blue Floor Tile & Glue | Tan<br>Non-Fibrous<br>Homogeneous       |               | 100% Non-fibrous (other)             | <b>None Detected</b> |
| 127-Cove Base<br><small>121401512-0075</small>       | 4" Gray Cove Base & Glue   | Gray<br>Non-Fibrous<br>Homogeneous      |               | 100% Non-fibrous (other)             | <b>None Detected</b> |

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*Michelle Wilson*  
 \_\_\_\_\_  
 Michelle Wilson, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
 Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

Initial report from 04/10/2014 17:44:45

**EMSL Analytical, Inc.**

3356 West Catalina Drive, Phoenix, AZ 85017

Phone/Fax: (602) 276-4344 / (602) 276-4053

<http://www.EMSL.com>[phoenixlab@emsl.com](mailto:phoenixlab@emsl.com)

|             |           |
|-------------|-----------|
| EMSL Order: | 121401512 |
| CustomerID: | 32nim50   |
| CustomerPO: |           |
| ProjectID:  |           |

Attn: **Michael Cushner**  
**Ninyo & Moore**  
**475 Goddard**  
**Suite 200**  
**Irvine, CA 92618**

Phone: (949) 753-7070  
 Fax:  
 Received: 04/08/14 8:10 AM  
 Analysis Date: 4/10/2014  
 Collected: 3/31/2014

Project: **Belmont Pool Facility / 4000 East Olympic Plaza Long Beach, CA / 209120001**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                      | Description              | Appearance                        | Non-Asbestos |                          | Asbestos      |
|-----------------------------|--------------------------|-----------------------------------|--------------|--------------------------|---------------|
|                             |                          |                                   | % Fibrous    | % Non-Fibrous            | % Type        |
| 127-Glue<br>121401512-0075A | 4" Gray Cove Base & Glue | Tan<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other) | None Detected |

Analyst(s)  
 \_\_\_\_\_  
 Bradley Orlowski (87)  
 Cheryl Replogle (59)

*Michelle Wilson*  
 \_\_\_\_\_  
 Michelle Wilson, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
 Samples analyzed by EMSL Analytical, Inc. Phoenix, AZ NVLAP Lab Code 200811-0, AZ0937

Initial report from 04/10/2014 17:44:45

1743

**ASBESTOS BULK SAMPLE DATA SHEET**

|  |  |   |  |  |  |  |  |
|--|--|---|--|--|--|--|--|
| <b>Ninyo &amp; Moore</b><br>475 Goddard, Suite 200<br>Irvine, CA 92618<br>Tel: (949) 753-7070<br>Fax: (949) 753-7071 |  | <b>Project Name : Belmont Pool Facility</b><br><b>Address: 4000 East Olympic Plaza</b><br>Long Beach, CA<br><b>Project No: 209120001</b><br><b>Project Manager: Michael Cushner</b> |  | <b>Date Sampled: 3-31-14</b><br><b>Sampled By: Andrew Hoyer</b><br><b>Sampled By: Andrew Hoyer</b><br><b>Date Sampled:</b> |  | <b>Laboratory:</b><br>LA Testing- 11652 Knott Street<br>Garden Grove, Ca<br>Tel: <b>324-1111</b><br>Fax: |  |
|--|--|---|--|--|--|--|--|

**CHAIN OF CUSTODY INFORMATION:**

|  |                          |                |                |  |                      |
|--|--------------------------|----------------|----------------|--|----------------------|
| Relinquished By: (sign/print)<br><i>Andrew Hoyer</i> | Company<br>Ninyo & Moore | Date<br>4-3-14 | Time: (24 hr.) | Received By: (sign/print)<br><i>ASGWS, 2/13/14</i> | Laboratory<br>4455pm |
|--|--------------------------|----------------|----------------|--|----------------------|

| LabID | Sample ID | Building Number | Sample Location                       | HA No. | Sample Description                       | Quantity (SFL/IEA) | Friable (Y/N) | Condition |
|-------|-----------|-----------------|---------------------------------------|--------|--|--------------------|---------------|-----------|
|       | 01        | Locker Offices  | Women's Locker Rm South wall          | 1      | Wall + Ceiling Plaster (Coarse + Smooth) | 2000               | N             | G         |
|       | 02        |                 | Women's Executive Locker Rm East wall |        |  |                    |               |           |
|       | 03        |                 | NE Office West wall                   |        |  |                    |               |           |
|       | 04        |                 | Electrical Rm North wall              |        |  |                    |               |           |
|       | 05        |                 | Hallway North wall                    |        |  |                    |               |           |
|       | 06        |                 | Men's Locker Rm North wall            |        |  |                    |               |           |
|       | 07        |                 | Men's Executive Locker Rm East wall   |        |  |                    |               |           |
|       | 08        |                 | Women's Locker Room South             | 2      | Button Board                             | 2000               | N             | G         |
|       | 09        |                 | Water Tank in Electrical Rm           | 3      | Cloth wrapped Fiberglass Insulation      | 2000               | N             | G         |
|       | 10        |                 |                                       |        |  |                    |               |           |
|       | 11        |                 |                                       |        |  |                    |               |           |
|       | 12        |                 | Women's Locker 2" Elbow               | 4      | Elbow Cloth wrapped Insulation           | Visible            | Y             | G         |
|       | 13        |                 | Men's Locker 3" Elbow                 |        |  |                    |               |           |

Do Not Positive Stop HA-1 (Plaster) Samples. Positive Stop after 1st < 1% on all other samples.



1743

**ASBESTOS BULK SAMPLE DATA SHEET**

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| <b>Ninyo &amp; Moore</b><br>475 Goddard, Suite 200<br>Irvine, CA 92618<br>Tel: (949) 753-7070<br>Fax: (949) 753-7071 |  | <b>Project Name : Belmont Pool Facility</b><br>Address: 4000 East Olympic Plaza<br>Long Beach, CA<br>Project No: 209120001<br>Project Manager: Michael Cushner |  | Date Sampled: 3-31+4-1, 2014<br>Sampled By:<br>Sampled By: Andrew Hoyer<br>Date Sampled: |  | <b>Laboratory:</b><br>LA Testing- 11652 Knott Street<br>Garden Grove, Ca<br>Tel:<br>Fax: |  |
|--|--|--|--|--|--|--|--|

**CHAIN OF CUSTODY INFORMATION:**

|   |                          |                |               |   |                        |
|---|--------------------------|----------------|---------------|---|------------------------|
| Relinquished By: (sign/print)<br><i>Andrew B. Fryer</i> | Company<br>Ninyo & Moore | Date<br>4-3-14 | Time (24 hr.) | Received By: (sign/print)<br><i>SSGWS</i> | Laboratory<br>11652 KN |
|---|--------------------------|----------------|---------------|---|------------------------|

| LabID | Sample ID | Building Number | Sample Location           | HA No. | Sample Description                 | Quantity (S/FL/EA)  | Friable (Y/N) | Condition |
|-------|-----------|-----------------|---------------------------|--------|------------------------------------|---------------------|---------------|-----------|
|       | 14        | Locker offices  | Women's Locker Rm 2" pipe | 5      | Cloth wrapped Pipe Insulation      | Unknown             | N             | G         |
|       | 15        |                 | Men's Locker Rm 3" pipe   | 6      | White/Paper Pipe Silver Insulation | Unknown             | Y             | G         |
|       | 16        |                 | Entry lobby               | 7      | 1'x1' Acoustic Ceiling Tile        | 1200 <sup>+</sup>   | Y             | G         |
|       | 17        |                 | Entry Lobby               | 8      | Carpet Glue                        | 5000 <sup>+</sup>   | N             | G         |
|       | 18        |                 | Weight Rm                 | 9      | Black Vinyl Cove Base/Glue         | 600LF               | N             | G         |
|       | 19        |                 | Electrical Rm             | 10     | Brittle Black Cove Base/Glue       | 100LF               | Y             | G         |
|       | 20        | Exterior        | East Entry Plaza          | 11     | Sidewalk Caulk                     |                     |               |           |
|       | 21        |                 | Southwest Corner          | 12     | Stone+Concrete Panels              | 30,000 <sup>+</sup> | N             | G         |
|       | 22        |                 | Southeast Corner          |        |                                    |                     |               |           |
|       | 23        |                 | Northwest Corner          |        |                                    |                     |               |           |
|       | 24        | Pool            | Diving Platform           | 13     | Dive Mat+Glue                      | 100 <sup>+</sup>    | N             | G         |
|       | 25        |                 | Above Platform            | 14     | 2'x2' Acoustic Ceiling Panels      | 17,600              | Y             | G         |
|       | 26        |                 | South Wall                | 15     | 2'x2' Acoustic Wall Panels         | 10,080              | Y             | G         |

1743

**ASBESTOS BULK SAMPLE DATA SHEET**

|   |  |   |  |   |  |   |  |
|---|--|---|--|---|--|---|--|
| Ninyo & Moore<br>475 Goddard, Suite 200<br>Irvine, CA 92618<br>Tel: (949) 753-7070<br>Fax: (949) 753-7071 |  | Project Name : Belmont Pool Facility<br>Address: 4000 East Olympic Plaza<br>Long Beach, CA<br>Project No: 209120001<br>Project Manager: Michael Cushner |  | Date Sampled: 3-31-14<br>Sampled By: Andrew Hoyer<br>Date Sampled: Andrew Hoyer |  | Laboratory:<br>LA Testing- 11652 Knott Street<br>Garden Grove, Ca<br>Tel:<br>Fax: |  |
|---|--|---|--|---|--|---|--|

| Relinquished By: (sign/print) |           | Company         | Date                              | Time (24 hr.) | Received By: (sign/print)              | Laboratory          |               |           |
|-------------------------------|-----------|-----------------|-----------------------------------|---------------|--|---------------------|---------------|-----------|
| <i>Andrew Hoyer</i>           |           | Ninyo & Moore   | 4-3-14                            |               | <i>Agg (w/s) 11/11-14</i>              | <i>4:45 PM</i>      |               |           |
| LabID                         | Sample ID | Building Number | Sample Location                   | HA No.        | Sample Description                     | Quantity (SF/LF/EA) | Friable (Y/N) | Condition |
|                               | 27        | Pool            | East Walkway                      | 16            | Walkway Caulk                          | 1000LF              | N             | G         |
|                               | 28        |                 | West Pool Window Expansion Joints | 17            | Window Caulk                           | 60LF                | N             | G         |
|                               | 29        |                 | Between Pool + Restaurant         | 18            | Black Tar                              | 800P                | N             | G         |
|                               | 30        |                 | Center                            |               |  |                     |               |           |
|                               | 31        |                 | S                                 |               |  |                     |               |           |
|                               | 32        |                 | North Storage                     | 1             | Wall + Ceiling Plaster Coarse + Smooth | 4000P               | N             | G         |
|                               | 33        |                 | South Stairwell Up                |               |  |                     |               |           |
|                               | 34        |                 | " " Down                          |               |  |                     |               |           |
|                               | 35        |                 | Basement Hall South               |               |  |                     |               |           |
|                               | 36        |                 | " " North                         |               |  |                     |               |           |
|                               | 37        |                 | South Stairwell                   | 19            | Black Brittle Cove Base + Glue         | 30LF                | Y             | G         |
|                               | 38        |                 | Basement Storage                  | 20            | Gray Brittle Cove Base + Glue          | 200LF               | Y             | G         |
|                               | 39        |                 | Filter Tank Room                  | 21            | Green Gasket*                          | 60 gaskets          | N             | G         |

\* Not Representative of all gaskets. Many gaskets not visible. Total gaskets = 200

1743

**ASBESTOS BULK SAMPLE DATA SHEET**

|  |  |   |  |   |  |  |  |
|--|--|---|--|---|--|--|--|
| <b>Ninyo &amp; Moore</b><br>475 Goddard, Suite 200<br>Irvine, CA 92618<br>Tel: (949) 753-7070<br>Fax: (949) 753-7071 |  | <b>Project Name : Belmont Pool Facility</b><br><b>Address: 4000 East Olympic Plaza</b><br>Long Beach, CA<br><b>Project No: 209120001</b><br><b>Project Manager: Michael Cushner</b> |  | <b>Date Sampled: 3-31-14</b><br><b>Sampled By: Andrew Hoyer</b><br><b>Date Sampled:</b> |  | <b>Laboratory:</b><br>LA Testing- 11652 Knott Street<br>Garden Grove, Ca<br>Tel:<br>Fax: |  |
|--|--|---|--|---|--|--|--|

**CHAIN OF CUSTODY INFORMATION:**

|   |                          |                |               |  |                      |
|---|--------------------------|----------------|---------------|--|----------------------|
| Relinquished By: (sign/print)<br><i>Andrew B. Hoyer</i> | Company<br>Ninyo & Moore | Date<br>4-3-14 | Time (24 hr.) | Received By: (sign/print)<br><i>ASG (LWS) 9/3/14</i> | Laboratory<br>4:45pm |
|---|--------------------------|----------------|---------------|--|----------------------|

| LabID | Sample ID | Building Number     | Sample Location        | HA No.                             | Sample Description                | Quantity (SFL/IEA) | Friable (Y/N) | Condition |
|-------|-----------|---------------------|------------------------|------------------------------------|-----------------------------------|--------------------|---------------|-----------|
|       | 40        | Pool                | Basement Storage Elbow | 4                                  | Elbow wrapped in cloth insulation | 18 visible         | Y             | G         |
|       | 41        |                     | NE Tank Room           | ↓                                  | ↓                                 | ↓                  | ↓             | ↓         |
|       | 42        |                     | NW " "                 | ↓                                  | ↓                                 | ↓                  | ↓             | ↓         |
|       | 43        |                     | Basement Storage Pipe  | 5                                  | cloth wrapped Pipe Insulation     | 300 LF             | N             | G         |
|       | 44        |                     | NE Tank Room           | ↓                                  | ↓                                 | ↓                  | ↓             | ↓         |
|       | 45        |                     | NW " "                 | ↓                                  | ↓                                 | ↓                  | ↓             | ↓         |
|       | 46        | NE Tank Room Ends   | 22                     | Tan Bridging Encapsulant           | 30P                               | N                  | G             |           |
|       | 47        | ↓                   | ↓                      | ↓                                  | ↓                                 | ↓                  | ↓             |           |
|       | 48        | ↓                   | ↓                      | ↓                                  | ↓                                 | ↓                  | ↓             |           |
|       | 49        | Heater Room 2" Pipe | 6                      | White/Paper Pipe Silver Insulation | 200 LF                            | Y                  | G             |           |
|       | 50        | Heater Room Pipes   | 23                     | White Bridging Encapsulant         | 10P                               | N                  | G             |           |
|       | 51        | ↓                   | ↓                      | ↓                                  | ↓                                 | ↓                  | ↓             |           |
|       | 52        | ↓                   | ↓                      | ↓                                  | ↓                                 | ↓                  | ↓             |           |

121401512

**ASBESTOS BULK SAMPLE DATA SHEET**

|  |  |   |  |
|--|--|---|--|
| <b>Ninyo &amp; Moore</b><br>475 Goddard, Suite 200<br>Irvine, CA 92618<br>Tel: (949) 753-7070<br>Fax: (949) 753-7071 | <b>Project Name : Belmont Pool Facility</b><br><b>Address : 4000 East Olympic Plaza</b><br>Long Beach, CA<br><b>Project No : 209120001</b><br><b>Project Manager : Michael Cushner</b> | <b>Date Sampled: 3-31-4-1, 2014</b><br><b>Sampled By: Andrew Hoyer</b><br><b>Sampled By: Andrew Hoyer</b><br><b>Date Sampled:</b> | <b>Laboratory:</b><br>LA Testing- 11652 Knott Street<br>Garden Grove, Ca<br>Tel:<br>Fax: |
|--|--|---|--|

| Relinquished By: (sign/print)         |           | Company         | Date                      | Time (24 hr.) | Received By: (signature)                 |                     | Laboratory    |           |
|---------------------------------------|-----------|-----------------|---------------------------|---------------|--|---------------------|---------------|-----------|
| Andrew Hoyer                          |           | Ninyo & Moore   | 4-8-14                    |               | Andrew Hoyer                             |                     | 3 day TAT     |           |
| University of Phoenix (to emp Phenix) |           | UAT             | 4/8/14                    |               | Andrew Hoyer                             |                     | 4/8/14 8:10   |           |
| LabID                                 | Sample ID | Building Number | Sample Location           | HA No.        | Sample Description                       | Quantity (SF/LF/EA) | Friable (Y/N) | Condition |
|                                       | 53        | Restaurant      | Kitchen North             | 1             | Wall + Ceiling Plaster (coarsest smooth) | 20000 <sup>+</sup>  | N             | G         |
|                                       | 54        |                 | Kitchen SE                |               |  |                     |               |           |
|                                       | 55        |                 | Kitchen South             |               |  |                     |               |           |
|                                       | 56        |                 | 2nd Floor Roof Access     |               |  |                     |               |           |
|                                       | 57        |                 | Center                    |               |  |                     |               |           |
|                                       | 58        |                 | Sanitor Closet            |               |  |                     |               |           |
|                                       | 59        |                 | Employee Restroom         |               |  |                     |               |           |
|                                       | 60        |                 | 2nd Floor Janitors Closet | 2             | Butten Board                             | 20000 <sup>+</sup>  | N             | G         |
|                                       | 61        |                 | Pance floor Ceiling Beam  | 24            | Dry wall + Joint Compound                | 50000 <sup>+</sup>  | N             | G         |
|                                       | 62        |                 | SW Wall                   |               |  |                     |               |           |
|                                       | 63        |                 | NW Wall                   |               |  |                     |               |           |
|                                       | 64        |                 | Kitchen                   | 25            | 2'x4' Acoustic Ceiling Panel (Drywall)   | 10000 <sup>+</sup>  | N             | G         |

Do Not Positive Stop HA-I (Plaster) samples. Positive stop after 1st <1% on all other samples.

121401512 Sheet 2 of 6

**ASBESTOS BULK SAMPLE DATA SHEET**

|   |  |   |   |
|---|--|---|---|
| <p><b>Ninyo &amp; Moore</b><br/>475 Goddard, Suite 200<br/>Irvine, CA 92618<br/>Tel: (949) 753-7070<br/>Fax: (949) 753-7071</p> | <p><b>Project Name : Belmont Pool Facility</b><br/><b>Address: 4000 East Olympic Plaza</b><br/>Long Beach, CA<br/><b>Project No: 209120001</b><br/><b>Project Manager: Michael Cushner</b></p> | <p>Date Sampled: 3-31-14-1, 2014<br/>Sampled By: Andrew Hoyer<br/>Date Sampled:</p> | <p><b>Laboratory:</b><br/>LA Testing- 11652 Knott Street<br/>Garden Grove, Ca<br/>Tel:<br/>Fax:</p> |
|---|--|---|---|

**CHAIN OF CUSTODY INFORMATION:**

| Relinquished By: (sign/print) | Company       | Date   | Time (24 hr.) | Received By: (signature) | Laboratory |
|-------------------------------|---------------|--------|---------------|--------------------------|------------|
| <i>Andrew B. Hoyer</i>        | Ninyo & Moore | 4-8-14 |               | <i>W. Johnson</i>        |            |

| LabID | Sample ID | Building Number | Sample Location                  | HA No. | Sample Description                 | Quantity (SF/LF/EA) | Friable (Y/N) | Condition |
|-------|-----------|-----------------|----------------------------------|--------|------------------------------------|---------------------|---------------|-----------|
|       | 65        | Restaurant      | Kitchen N                        | 26     | Green Flooring Resin               | 1000P               | N             | G         |
|       | 66        |                 | Center                           | ↓      | ↓                                  | ↓                   | ↓             | ↓         |
|       | 67        |                 | S                                | ↓      | ↓                                  | ↓                   | ↓             | ↓         |
|       | 68        |                 | West Exterior Wall N             | 27     | Exterior Pink wall Plaster         | 400P                | N             | G         |
|       | 69        |                 | Center                           | ↓      | ↓                                  | ↓                   | ↓             | ↓         |
|       | 70        |                 | S                                | ↓      | ↓                                  | ↓                   | ↓             | ↓         |
|       | 71        |                 | 1st Floor Above Women's 3" Elbow | 4      | Elbow Clothwrapped Insulation      | 15 Visible          | Y             | G         |
|       | 72        |                 | Mech. Rm 4" Elbow                | ↓      | ↓                                  | ↓                   | ↓             | ↓         |
|       | 73        |                 | 1st Flr Mech Rm 4" End           | 28     | Pipe End clothwrapped Insulation   | Visible             | Y             | G         |
|       | 74        |                 | Above Women's 2" Pipe            | 5      | Clothwrapped Pipe Insulation       | 300LF               | N             | G         |
|       | 75        |                 | 11 11 4" Pipe                    | 29     | Cloth Silver Paper Pipe Insulation | 300LF               | N             | G         |
|       | 76        |                 | Mech Rm                          | ↓      | ↓                                  | ↓                   | ↓             | ↓         |
|       | 77        |                 | 11 11 2" pipe                    | 30     | Painted Clothwrap Pipe Insulation  | 200LF               | N             | G         |

171401512 Sheet 3 of 6

**ASBESTOS BULK SAMPLE DATA SHEET**

|  |  |   |  |   |  |  |  |
|--|--|---|--|---|--|--|--|
| <b>Ninyo &amp; Moore</b><br>475 Goddard, Suite 200<br>Irvine, CA 92618<br>Tel: (949) 753-7070<br>Fax: (949) 753-7071 |  | <b>Project Name : Belmont Pool Facility</b><br><b>Address: 4000 East Olympic Plaza</b><br>Long Beach, CA<br><b>Project No: 209120001</b><br><b>Project Manager: Michael Cushner</b> |  | <b>Date Sampled: 3-31-14</b><br><b>Sampled By: Andrew Foxer</b><br><b>Date Sampled: Pedro Rodriguez</b> |  | <b>Laboratory:</b><br>LA Testing- 11652 Knott Street<br>Garden Grove, Ca<br>Tel:<br>Fax: |  |
|--|--|---|--|---|--|--|--|

**CHAIN OF CUSTODY INFORMATION:**

|   |                          |                |                |  |            |
|---|--------------------------|----------------|----------------|--|------------|
| Relinquished By: (sign/print)<br><i>Andrew B. Foxer</i> | Company<br>Ninyo & Moore | Date<br>4-8-14 | Time: (24 hr.) | Received By: (sign/print)<br><i>Wally Goss</i> | Laboratory |
|---|--------------------------|----------------|----------------|--|------------|

| LabID | Sample ID | Building Number    | Sample Location | HA No. | Sample Description                              | Quantity (SF/LF/EA) | Friable (Y/N) | Condition |
|-------|-----------|--------------------|-----------------|--------|---|---------------------|---------------|-----------|
|       | 78        | Restaurant 2nd Flr | Above Kitchen   | 31     | Cloth AC Duct Tape                              | 300LF               | N             | G         |
|       | 79        |                    | Kitchen NW      | 32     | 1'x1' Acoustic Ceiling Tile w/ Holes            | 1000 <sup>+</sup>   | Y             | G         |
|       | 80        |                    | North Office    | 33     | 1'x1' Acoustic Ceiling Tile w/ Crevices         | 6000 <sup>+</sup>   | Y             | G         |
|       | 81        |                    | Women's Foyer   | 34     | 12" Floor Tile White w/ Bk Streaks/Black Mastic | 8000 <sup>+</sup>   | N             | G         |
|       | 82        |                    | NW Hall         | ↓      | ↓   | ↓                   | ↓             | ↓         |
|       | 83        |                    | Janitor Closet  | ↓      | ↓   | ↓                   | ↓             | ↓         |
|       | 84        |                    | Roof NW         | 35     | Roof Core                                       | 9000 <sup>+</sup>   | N             | G         |
|       | 85        |                    | Center          | ↓      | ↓   | ↓                   | ↓             | ↓         |
|       | 86        |                    | SE              | ↓      | ↓   | ↓                   | ↓             | ↓         |
|       | 87        |                    | North Vent      | 36     | Penetration Mastic                              | 60 <sup>+</sup>     | N             | G         |
|       | 88        |                    | East Pocket     | ↓      | ↓   | ↓                   | ↓             | ↓         |
|       | 89        |                    | SE AC Unit      | ↓      | ↓   | ↓                   | ↓             | ↓         |
|       | 90        |                    | NE AC Unit      | 37     | Beige Caulking                                  | 25 <sup>+</sup>     | N             | G         |
|       | 91        |                    | N AC Unit       | 38     | Gray Caulking                                   | 30LF                | N             | G         |

121401517 Sheet 4 of 6

**ASBESTOS BULK SAMPLE DATA SHEET**

|   |   |   |   |
|---|---|---|---|
| <p><b>Ninyo &amp; Moore</b><br/>                 475 Goddard, Suite 200<br/>                 Irvine, CA 92618<br/>                 Tel: (949) 753-7070<br/>                 Fax: (949) 753-7071</p> | <p><b>Project Name : Belmont Pool Facility</b><br/> <b>Address : 4000 East Olympic Plaza</b><br/>                 Long Beach, CA<br/> <b>Project No: 209120001</b><br/> <b>Project Manager: Michael Cushner</b></p> | <p><b>Date Sampled: 3-31-14</b><br/> <b>Sampled By: [Signature]</b><br/> <b>Sampled By: [Signature]</b><br/> <b>Date Sampled: [Signature]</b></p> | <p><b>Laboratory:</b><br/>                 LA Testing- 11652 Knott Street<br/>                 Garden Grove, Ca<br/>                 Tel:<br/>                 Fax:</p> |
|---|---|---|---|

| Relinquished By: (sign/print) |           | Company         | Date               | Time (24 hr) | Received By: (sign/print) | Laboratory          |               |           |
|-------------------------------|-----------|-----------------|--------------------|--------------|---------------------------|---------------------|---------------|-----------|
| Andrew B. Hoyle               |           | Ninyo & Moore   | 4-8-14             |              | W. J. [Signature]         |                     |               |           |
| LabID                         | Sample ID | Building Number | Sample Location    | HA No.       | Sample Description        | Quantity (SF/LF/EA) | Friable (Y/N) | Condition |
|                               | 92        | Main Pool       | Roof West          | 39           | Roof Core                 | 40000               | N             | G         |
|                               | 93        |                 | Center             | ↓            | ↓                         | ↓                   | ↓             | ↓         |
|                               | 94        |                 | NE                 |              |                           |                     |               |           |
|                               | 95        |                 | SE Patch           | 40           | Roof Patch Core           | 1000                | N             | G         |
|                               | 96        |                 | North Pitch Pocket | 41           | Penetration Mastic        | 150                 | N             | G         |
|                               | 97        |                 | Center Hatch       | ↓            | ↓                         | ↓                   | ↓             | ↓         |
|                               | 98        |                 | South Skylight     |              |                           |                     |               |           |
|                               | 99        |                 | East Skylight      | 37           | Beige Caulking            | 20                  | N             | G         |
|                               | 100       |                 | Center Skylight    | 38           | Gray Caulking             | 600                 | N             | G         |
|                               | 101       | Locker Lockers  | North              | 42           | Roof Core                 | 10000               | N             | G         |
|                               | 102       |                 | West               | ↓            | ↓                         | ↓                   | ↓             | ↓         |
|                               | 103       |                 | South              |              |                           |                     |               |           |
|                               | 104       |                 | West Vent          | 37           | Beige Caulking            | 30                  | N             | G         |

1740 512 Sheet 5 of 6

**ASBESTOS BULK SAMPLE DATA SHEET**

|   |   |   |   |
|---|---|---|---|
| <p><b>Ninyo &amp; Moore</b><br/>475 Goddard, Suite 200<br/>Irvine, CA 92618<br/>Tel: (949) 753-7070<br/>Fax: (949) 753-7071</p> | <p><b>Project Name : Belmont Pool Facility</b><br/><b>Address: 4000 East Olympic Plaza</b><br/><b>Long Beach, CA</b><br/><b>Project No: 209120001</b><br/><b>Project Manager: Michael Cushner</b></p> | <p><b>Date Sampled: 3-31-14</b><br/><b>Sampled By: Pedro Rodriguez</b><br/><b>Date Sampled: 3-31-14</b></p> | <p><b>Laboratory:</b><br/>LA Testing- 11652 Knott Street<br/>Garden Grove, Ca<br/>Tel:<br/>Fax:</p> |
|---|---|---|---|

**CHAIN OF CUSTODY INFORMATION:**

| Relinquished By: (sign/print) | Company       | Date                   | Time (24 hr.)       | Received By: (sign/print) | Laboratory          |                     |                 |           |
|-------------------------------|---------------|------------------------|---------------------|---------------------------|---------------------|---------------------|-----------------|-----------|
| <i>Andrew B. Boyer</i>        | Ninyo & Moore | 4-8-14                 |                     | <i>W. J. Foster</i>       |                     |                     |                 |           |
| LabID                         | Sample ID     | Building Number        | Sample Location     | HA No.                    | Sample Description  | Quantity (SF/LF/EA) | Frangible (Y/N) | Condition |
|                               | 105           | Lockers Offices        | Roof South Vent     | 43                        | Penetration Mastic  | 20#                 | N               | G         |
|                               | 106           |                        | Center Sleeper      | ↓                         | ↓                   | ↓                   | ↓               | ↓         |
|                               | 107           |                        | Center Rich Packet  |                           |                     |                     |                 |           |
|                               | 108           |                        | East Walkway        | 44                        | White Caulking      | 10#                 | N               | G         |
|                               | 109           | Old Pool Chemical Room | Center              | 45                        | Roof Core           | 120#                | N               | G         |
|                               | 110           |                        | SE                  | 46                        | ↓                   | 30#                 | ↓               | ↓         |
|                               | 111           |                        | West                | 47                        | Base Flashing       | 60#                 | N               | G         |
|                               | 112           |                        | West Vent Pipe      | 48                        | Black Mastic        | 2#                  |                 |           |
|                               | 113           |                        | SW Heater Vent Pipe | 49                        | Gray Mastic         | 25#                 |                 |           |
|                               | 114           |                        | West Vent Pipe      | 50                        | Gray Caulking       | 10#                 |                 |           |
|                               | 115           |                        | North Edge          | 51                        | Gray Caulking (Old) | 60LF                |                 |           |
|                               | 116           | Old Pool Storage       | Center              | 52                        | Roof Core           | 60#                 |                 |           |
|                               | 117           |                        | North Edge          | 53                        | Black Mastic        | 5#                  |                 | ↓         |

121401517 Sheet 6 of 6

**ASBESTOS BULK SAMPLE DATA SHEET**

|  |   |   |  |
|--|---|---|--|
| <b>Ninyo &amp; Moore</b><br>475 Goddard, Suite 200<br>Irvine, CA 92618<br>Tel: (949) 753-7070<br>Fax: (949) 753-7071 | <b>Project Name : Belmont Pool Facility</b><br><b>Address: 4000 East Olympic Plaza</b><br>Long Beach, CA<br><b>Project No: 209120001</b><br><b>Project Manager: Michael Cushner</b> | Date Sampled: 3-31-4-1, 2014<br>Sampled By: Andrew Hoyer<br>Date Sampled: | <b>Laboratory:</b><br>LA Testing- 11652 Knott Street<br>Garden Grove, Ca<br>Tel:<br>Fax: |
|--|---|---|--|

| Relinquished By: (sign/print) |           | Company              | Date            | Time (24 hr.) | Received By: (sign/print)           |                     | Laboratory    |           |
|-------------------------------|-----------|----------------------|-----------------|---------------|-------------------------------------|---------------------|---------------|-----------|
| Andrew B. Hoyer               |           | Ninyo & Moore        | 4-8-14          |               | Wygess, Chandler                    |                     |               |           |
| LabID                         | Sample ID | Building Number      | Sample Location | HA No.        | Sample Description                  | Quantity (SF/LF/EA) | Friable (Y/N) | Condition |
|                               | 118       | Old Pool Chemical Rm | SW Ceiling      | 54            | Wall Ceiling Plaster Coarset Smooth | 1000P               | N             | G         |
|                               | 119       |                      | West Wall       | ↓             | ↓                                   | ↓                   | ↓             | ↓         |
|                               | 120       |                      | North Wall      | ↓             | ↓                                   | ↓                   | ↓             | ↓         |
|                               | 121       |                      | 2" Pipe         | 55            | Cloth wrapped Pipe Insulation       | 40 LF               | N             | G         |
|                               | 122       |                      | 2" Elbow        | 56            | Cloth wrapped Elbow Insulation      | 5 Elbows            | Y             | G         |
|                               | 123       | Old Pool Storage     | East            | 57            | Dry Wall Joint Compound             | 600P                | N             | G         |
|                               | 124       |                      | Center          | ↓             | ↓                                   | ↓                   | ↓             | ↓         |
|                               | 125       |                      | West            | ↓             | ↓                                   | ↓                   | ↓             | ↓         |
|                               | 126       |                      | East            | 58            | 12" Blue Floor Tile + Glue          | 100P                | N             | G         |
|                               | 127       |                      | East            | 59            | 4" Gray Core Base + Glue            | 120 LF              | N             | G         |
|                               |           |                      |                 |               |                                     |                     |               |           |
|                               |           |                      |                 |               |                                     |                     |               |           |
|                               |           |                      |                 |               |                                     |                     |               |           |
|                               |           |                      |                 |               |                                     |                     |               |           |

**APPENDIX D**  
**PHOTOGRAPHIC DOCUMENTATION**



**Photograph 1:** View of locker rooms and office building roofing with asbestos containing vent penetration mastic.



**Photograph 2:** View of representative asbestos containing cloth-wrapped elbow insulation in the ceiling plenum above the women's locker room in the locker rooms and office building.



**Photograph 3:** View of main pool building roofing with asbestos containing materials including penetration mastic and skylight beige caulking.



**Photograph 4:** View of walkway roofing between locker rooms and office building and main pool building with asbestos containing white caulking.



**Photograph 5:** View of representative asbestos containing cloth-wrapped elbow insulation in the main pool building basement.



**Photograph 6:** View of restaurant roofing with asbestos containing penetration mastic.



**Photograph 7:** View of representative asbestos containing cloth-wrapped elbow insulation in the ceiling plenum above the first floor women's restroom within the restaurant building.



**Photograph 8:** View of asbestos containing vinyl floor tile and mastic on the second floor of the restaurant building.



**Photograph 9:** View of assumed asbestos containing vibration damper in the mechanical room of the restaurant building.



**Photograph 10:** View of old pool mechanical/chemical building roofing with asbestos containing materials including vent black mastic and gray caulking.



**Photograph 11:** View of old pool storage building roofing with asbestos containing black mastic.



**Photograph 12:** View of fair lead-containing white paint on parapet concrete wall on the roof of the restaurant building.



**Photograph 13:** View of intact lead-containing white ceramic wall tile in the 2<sup>nd</sup> floor kitchen of the restaurant building.



**Photograph 14:** View of intact lead-containing beige ceramic wall tile in the 2<sup>nd</sup> floor men's restroom of the restaurant building.



**Photograph 15:** View of intact lead-containing white ceramic wall tile in the 2<sup>nd</sup> floor women's restroom of the restaurant building.



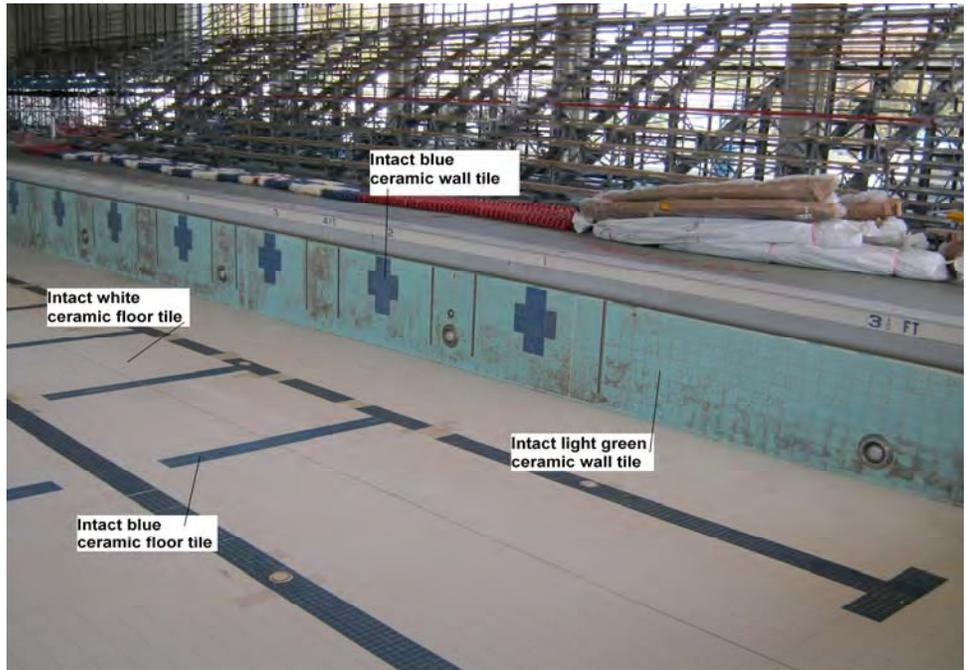
**Photograph 16:** View of intact and fair lead-containing red, green, and yellow paint on concrete wall sign on the exterior wall of the ramp.



**Photograph 17:** View of intact lead-containing red paint on metal pipes and yellow and orange paint on metal pipe valves in Room 2 under the ramp.



**Photograph 18:** View of fair lead-containing white paint on concrete parapet wall on the roof of the main pool building.



**Photograph 19:** View of representative intact lead-containing white, blue, and light green ceramic wall and floor tiles in the swimming pool and diving pool of the main pool building.



**Photograph 20:** View of representative intact lead-containing white paint on concrete wall overhang in the main pool building.



**Photograph 21:** View of intact lead-containing green paint on metal floor hatch in the storage area of the main pool building.



**Photograph 22:** View of representative intact, fair, and poor lead-containing white paint on metal ceiling pipes in the pool equipment storage room in the basement of the main pool building.



**Photograph 23:** View of representative intact lead-containing white paint on metal pipes in the filter tank room in the basement of the main pool building.



**Photograph 24:** View of intact lead-containing yellow paint on metal control panel in the filter tank room in the basement of the main pool building.



**Photograph 25:** View of fair lead-containing white paint on concrete parapet wall on the roof of the locker rooms and office building.



**Photograph 26:** View of representative intact lead-containing white paint on metal wall and sliding door on the exterior of the locker rooms and office building.



**Photograph 27:** View of representative intact lead-containing yellow ceramic wall tile in the women's, women's executive, and men's executive locker rooms in the locker rooms and office building.



**Photograph 28:** View of representative intact lead-containing white and tan with white ceramic wall tile, and yellow paint on plastic benches in the women's, men's women's executive, men's executive, and women's employee locker rooms in the locker rooms and office building.



**Photograph 29:** View of intact lead-containing cream ceramic wall tile in the women's executive locker room in the locker rooms and office building.



**Photograph 30:** View of intact lead-containing gray ceramic wall tile in the men's locker room in the locker rooms and office building.



**Photograph 31:** View of representative intact lead-containing brown ceramic wall tile in the women's, women's executive, men's, men's executive, and men's employee locker rooms in the locker rooms and office building.



**Photograph 32:** View of intact lead-containing blue ceramic floor tile in the old pool area.



**Photograph 33:** View of assumed intact lead-containing blue ceramic wall tile and white paint on concrete walls and floor in the wading pool of the old pool area.



**Photograph 34:** View of assumed intact lead-containing blue ceramic wall and floor tile and white paint on concrete walls and floor in the swimming pool of the old pool area.

**APPENDIX E**  
**XRF TESTING METHODOLOGY**

## XRF TESTING METHODOLOGY

To assess the painted surfaces for future contractor worker safety, x-ray fluorescence (XRF) testing technologies were utilized. The testing was conducted in general accordance with the following regulation: *Title 17, California Code of Regulations, Division 1, Chapter 8, Accreditation Certification, and Work Practice in Lead Related Construction, Section 36000.*

After a visual assessment, accessible painted surfaces were screened for lead content with a NITON XLp 300A XRF spectrum analyzer. XRF readings were taken using the standard paint mode. Standard paint mode measurements have no predetermined testing length, and automatically adjust to account for various types of substrates and material's densities. In the standard paint mode, the NITON 300A XLp XRF collects an XRF assay until either a K-shell or L-shell result is indicated as either positive or negative, compared to the threshold level based on the current precision of the test. Correction for paint matrix and substrate effects is performed automatically by the XRF analyzer.

XRF readings were made on testing combinations in all room equivalents in an effort to test typical materials that are representative of the room equivalent. Testing combinations were tested non-destructively by holding the shutter of the XRF against the surface being tested. At each XRF assay location, the trigger is depressed to open the shutter, and one reading was made using the standard paint testing mode. Results of each assay were recorded in the memory of the XRF spectrum analyzer and downloaded via the software provided by the manufacturer. In addition, the results of each assay were read and recorded on the XRF Data Sheet field data sheet.

The XRF testing orientation is depicted on the attached sample location maps. The "A" direction was initially assigned to the direction of the street, and the subsequent directions ("B," "C," and "D") were assigned clockwise from the "A" direction. Should the subject site be located on the corner of two streets, the "A" direction is assigned to the direction of the street address of the subject site.

To ensure that the XRF equipment was working properly, various quality control tests were performed before, during, and after the on-site work. At the beginning of the work day, three start up validation measurements were made in the K and L calibration mode, using the calibration check standard associated with the particular XRF that was used. This painted standard contains a known quantity of lead and allows the XRF operator to determine whether the instrument is functioning within acceptable tolerance ranges for accuracy and precision, as determined by the manufacturer. Calibration checks were generally collected on the red 1.06 mg/cm<sup>2</sup> and/or yellow 1.57 mg/cm<sup>2</sup> Standard Reference Material (SRM) paint film, developed by the National Institute of Standards and Technology (NIST).

In addition to the three starts up tests, calibration readings are collected between each building, after four hours, and at the completion of XRF testing. Results of each calibration reading were recorded within the memory of the XRF spectrum analyzer and on the XRF Data Sheet. The quality control tests taken during testing at the subject site were within the acceptable performance range prescribed by the XRF equipment manufacturer. Documentation of the quality control calibration check is included in the Table 2.

**APPENDIX F**

**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH FORM 8552**

## LEAD HAZARD EVALUATION REPORT

**Section 1 — Date of Lead Hazard Evaluation** 3/31/14

**Section 2 — Type of Lead Hazard Evaluation (Check one box only)**

Lead Inspection     Risk assessment     Clearance Inspection     Other (specify) \_\_\_\_\_

**Section 3 — Structure Where Lead Hazard Evaluation Was Conducted**

|   |  |                    |   |                   |
|---|--|--------------------|---|-------------------|
| Address [number, street, apartment (if applicable)]<br>4000 E Olympic Plaza |  | City<br>Long Beach | County<br>Los Angeles   | Zip Code<br>90803 |
| Construction date (year) of structure<br>1968                               | Type of structure<br><input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare<br><input type="checkbox"/> Single family dwelling <input checked="" type="checkbox"/> Other <u>Public Pool</u> |                    | Children living in structure?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> Don't Know |                   |

**Section 4 — Owner of Structure (if business/agency, list contact person)**

|   |  |                                    |             |                   |
|---|--|------------------------------------|-------------|-------------------|
| Name<br>City of Long Beach - Eric Lopez   |  | Telephone number<br>(562) 570-5690 |             |                   |
| Address [number, street, apartment (if applicable)]<br>333 West Ocean Blvd, 9th Floor |  | City<br>Long Beach                 | State<br>CA | Zip Code<br>90802 |

**Section 5 — Results of Lead Hazard Evaluation (check all that apply)**

No lead-based paint detected     Intact lead-based paint detected     Deteriorated lead-based paint detected  
 No lead hazards detected     Lead-contaminated dust found     Lead-contaminated soil found     Other \_\_\_\_\_

**Section 6 — Individual Conducting Lead Hazard Evaluation**

|  |   |                                    |             |                   |
|--|---|------------------------------------|-------------|-------------------|
| Name<br>Patrick Cullip   |   | Telephone number<br>(949) 753-7070 |             |                   |
| Address [number, street, apartment (if applicable)]<br>475 Goddard |   | City<br>Irvine                     | State<br>CA | Zip Code<br>92618 |
| CDPH certification number<br>24783                                 | Signature<br> |                                    |             | Date<br>4/23/14   |

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

**Section 7 — Attachments**

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;  
 B. Each testing method, device, and sampling procedure used;  
 C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health  
 Childhood Lead Poisoning Prevention Branch Reports  
 850 Marina Bay Parkway, Building P, Third Floor  
 Richmond, CA 94804-6403  
 Fax: (510) 620-5656

**APPENDIX G**

**LIMITED ASBESTOS AND LEAD PAINT SURVEY –**  
**BEACH MAINTENANCE BUILDING**

July 10, 2014  
Project No. 209120001

Mr. Diego Matzkin  
Harley Ellis Devereaux  
601 South Figueroa Street, Suite 500  
Los Angeles, California 90017

Subject: Limited Asbestos and Lead Paint Survey Letter Report  
Beach Maintenance Building  
4320 East Olympic Plaza  
Long Beach, California 90803

Dear Mr. Matzkin:

In accordance with your request, Ninyo & Moore is pleased to submit this letter report summarizing our sampling activities at the Beach Maintenance Building (BMB), 4320 East Olympic Plaza, Long Beach, California.

On July 1, 2014, a California Division of Occupational Safety and Health (DOSH) Certified Site Surveillance Technician and California Department of Public Health (CDPH) Lead Sampling Technician performed a limited asbestos and lead paint survey of the areas planned for renovation within the BMB. Sampling activities were performed under the direction of a DOSH Certified Asbestos Consultant, and a CDPH Lead Inspector/Assessor. Inspector certification documentation is provided in Attachment A.

Sampling activities included collecting bulk samples of suspect asbestos-containing materials (ACMs) which were submitted for asbestos analysis to a National Voluntary Laboratory Accreditation Program certified laboratory. Sampling activities for the limited lead survey included collecting suspect paint chip samples and submittal of these samples to a certified laboratory for lead analysis. Eight samples comprising sixteen layers of ACMs, and three paint chip samples were collected and transferred to LA Testing for laboratory analysis.

The suspect asbestos samples were analyzed using Polarized Light Microscopy with dispersion staining, for the presence and quantification of asbestos fibers, in general accordance with the

United States Environmental Protection Agency (EPA) method 600/M4-82-020. Asbestos was not detected in any of the bulk samples that were analyzed. The suspect lead paint chip samples were analyzed using flame atomic absorption spectrometry in accordance with EPA method SW 846 3050B/7000B. Based on the CDPH guidelines, 0.5 percent by weight was used as the detection limit for the paint chip samples. The three samples were below the detection limit. Asbestos and lead laboratory analysis and chain of custody records are provided in Attachment 2.

We appreciate the opportunity to be of service to you on this important project. Should you have any questions regarding this letter report, please contact us at your convenience.

Sincerely,  
**NINYO & MOORE**



Michael S. Cushner, CAC #11-4711  
Project Environmental Scientist

MSC/NA/sc

Attachments: Attachment A – Inspector Certification Documentation  
Attachment B – Laboratory Analysis and Chain-of-Custody Records

Distribution: (1) Addressee (via e-mail)

**ATTACHMENT A**

**INSPECTOR CERTIFICATION DOCUMENTATION**

State of California  
Division of Occupational Safety and Health  
**Certified Asbestos Consultant**



**Michael S Cushner**

Name

Certification No. 11-4711

Expires on 07/20/14

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related  
Construction  
Certificate

Certificate  
Type

Expiration  
Date



|                    |            |
|--------------------|------------|
| Inspector/Assessor | 09/26/2014 |
| Project Monitor    | 09/26/2014 |



**Michael S. Cushner**

ID # **16953**

State of California Department of Public Health

| Lead-Related Construction Certificate   | Certificate Type    | Expiration Date |
|---|---------------------|-----------------|
|  | Sampling Technician | 01/09/2015      |

**Pedro Rodriguez** ID #: **23793**

26090

State of California  
Division of Occupational Safety and Health  
**Certified Site Surveillance Technician**

**Pedro Rodriguez-Mendez**

|  |                                 |
|--|---------------------------------|
|  | Name                            |
|  | Certification No <u>13-5109</u> |
|  | Expires on <u>01/15/15</u>      |

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

**ATTACHMENT B**

**LABORATORY ANALYSIS AND CHAIN-OF-CUSTODY RECORDS**

**ASBESTOS**



# LA Testing

11652 Knott Street Unit F5, Garden Grove, CA 92841

Phone/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com>

[gardengrovelab@latesting.com](mailto:gardengrovelab@latesting.com)

LA Testing Order: 331412381

CustomerID: 32nim50

CustomerPO:

ProjectID:

Attn: **Michael Cushner  
Ninyo & Moore  
475 Goddard  
Suite 200  
Irvine, CA 92618**

Phone: (949) 753-7070  
Fax:  
Received: 07/01/14 1:15 PM  
Analysis Date: 7/2/2014  
Collected:

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                             | Description                                       | Appearance                              | Non-Asbestos  |                                       | Asbestos      |
|------------------------------------|---|---|---------------|---------------------------------------|---------------|
|                                    |   |   | % Fibrous     | % Non-Fibrous                         | % Type        |
| 1-Joint Compound<br>331412381-0001 | Kitchen/Break Rm<br>Ceiling SE DW/JC              | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)              | None Detected |
| 1-Drywall<br>331412381-0001A       | Kitchen/Break Rm<br>Ceiling SE DW/JC              | Brown/White<br>Fibrous<br>Heterogeneous | 10% Cellulose | 70% Gypsum<br>20% Non-fibrous (other) | None Detected |
| 2-Joint Compound<br>331412381-0002 | Kitchen/Break Rm<br>Wall S DW/JC                  | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)              | None Detected |
| 2-Drywall<br>331412381-0002A       | Kitchen/Break Rm<br>Wall S DW/JC                  | Brown<br>Fibrous<br>Heterogeneous       | 10% Cellulose | 70% Gypsum<br>20% Non-fibrous (other) | None Detected |
| 3-Joint Compound<br>331412381-0003 | Kitchen/Break Rm<br>Wall NW DW/JC                 | White<br>Non-Fibrous<br>Homogeneous     |               | 100% Non-fibrous (other)              | None Detected |
| 3-Drywall<br>331412381-0003A       | Kitchen/Break Rm<br>Wall NW DW/JC                 | Brown/White<br>Fibrous<br>Heterogeneous | 10% Cellulose | 70% Gypsum<br>20% Non-fibrous (other) | None Detected |
| 4-Finish Coat<br>331412381-0004    | Storage Adjacent<br>to Kitchen Wall NE<br>Plaster | White<br>Non-Fibrous<br>Homogeneous     |               | 3% Quartz<br>97% Non-fibrous (other)  | None Detected |
| 4-Base Coat<br>331412381-0004A     | Storage Adjacent<br>to Kitchen Wall NE<br>Plaster | Gray<br>Non-Fibrous<br>Homogeneous      |               | 3% Quartz<br>97% Non-fibrous (other)  | None Detected |

Analyst(s)

Christopher Miranda (16)

Michael DeCavallas, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
Samples analyzed by LA Testing Garden Grove, CA NVLAP Lab Code 101384-0, CA ELAP 1406

Initial report from 07/02/2014 12:22:50



# LA Testing

11652 Knott Street Unit F5, Garden Grove, CA 92841

Phone/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com>

[gardengrovelab@latesting.com](mailto:gardengrovelab@latesting.com)

|                   |           |
|-------------------|-----------|
| LA Testing Order: | 331412381 |
| CustomerID:       | 32nim50   |
| CustomerPO:       |           |
| ProjectID:        |           |

Attn: **Michael Cushner**  
**Ninyo & Moore**  
**475 Goddard**  
**Suite 200**  
**Irvine, CA 92618**

Phone: (949) 753-7070  
 Fax:  
 Received: 07/01/14 1:15 PM  
 Analysis Date: 7/2/2014  
 Collected:

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample                          | Description                                 | Appearance                           | Non-Asbestos |                                      | Asbestos      |
|---------------------------------|---|--------------------------------------|--------------|--------------------------------------|---------------|
|                                 |   |                                      | % Fibrous    | % Non-Fibrous                        | % Type        |
| 5-Finish Coat<br>331412381-0005 | Storage Adjacent to Kitchen Wall SW Plaster | White<br>Non-Fibrous<br>Homogeneous  |              | 3% Quartz<br>97% Non-fibrous (other) | None Detected |
| 5-Base Coat<br>331412381-0005A  | Storage Adjacent to Kitchen Wall SW Plaster | Gray<br>Non-Fibrous<br>Homogeneous   |              | 3% Quartz<br>97% Non-fibrous (other) | None Detected |
| 6-Finish Coat<br>331412381-0006 | Hall Near Kitchen Entry Wall N Plaster      | White<br>Non-Fibrous<br>Homogeneous  |              | 3% Quartz<br>97% Non-fibrous (other) | None Detected |
| 6-Base Coat<br>331412381-0006A  | Hall Near Kitchen Entry Wall N Plaster      | Gray<br>Non-Fibrous<br>Homogeneous   |              | 3% Quartz<br>97% Non-fibrous (other) | None Detected |
| 7-Floor Tile<br>331412381-0007  | Kitchen/Break Rm Floor Center 12x12 Gray FT | Beige<br>Non-Fibrous<br>Homogeneous  |              | 100% Non-fibrous (other)             | None Detected |
| 7-Mastic<br>331412381-0007A     | Kitchen/Break Rm Floor Center 12x12 Gray FT | Yellow<br>Non-Fibrous<br>Homogeneous |              | 100% Non-fibrous (other)             | None Detected |
| 8-Cove Base<br>331412381-0008   | Kitchen/Break Rm Counter Wall Under Sink    | Brown<br>Non-Fibrous<br>Homogeneous  |              | 100% Non-fibrous (other)             | None Detected |
| 8-Mastic<br>331412381-0008A     | Kitchen/Break Rm Counter Wall Under Sink    | Brown<br>Non-Fibrous<br>Homogeneous  |              | 100% Non-fibrous (other)             | None Detected |

Analyst(s)  
 Christopher Miranda (16)

  
 Michael DeCavallas, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
 Samples analyzed by LA Testing Garden Grove, CA NVLAP Lab Code 101384-0, CA ELAP 1406

Initial report from 07/02/2014 12:22:50

**ASBESTOS BULK SAMPLE DATA SHEET**

|  |  |  |  |
|--|--|--|--|
| <b>Ninyo &amp; Moore</b><br>475 Goddard, Suite 200<br>Irvine, CA 92618<br>Tel: (949) 753-7070<br>Fax: (949) 753-7071 | <b>Project Name:</b><br>Project No.:<br>Project Manager: | Date Sampled:<br>Sampled By: Pedro Rodriguez<br>Sampled By:<br>Date Sampled: | <b>Laboratory:</b><br>LA Testing- 11652 Knott Street<br>Garden Grove, Ca<br>Tel:<br>Fax: |
| Michael Cushner  |  |  |  |

| CHAIN OF CUSTODY INFORMATION: |               |        |               | Received By: (signature) |                      |  |        | Laboratory  |                     |               |           |
|-------------------------------|---------------|--------|---------------|--------------------------|----------------------|--|--------|---|---------------------|---------------|-----------|
| Relinquished By: (signature)  | Company       | Date   | Time (24 hr.) | Sample ID                | Building Number      | Sample Location                          | HA No. | Sample Description  | Quantity (SF/LF/EA) | Friable (Y/N) | Condition |
| <i>[Signature]</i>            | Ninyo & Moore | 7/1/14 | 1312          | 1                        | Mechanic/<br>Mintime | Kitchen/Break Room<br>- Ceiling - SE     | 1      | Dropwall w/ Joint Comp.   | 400 SF              | N             | Good      |
|                               |               |        |               | 2                        |                      | - Wall - S                               | 1      |   |                     |               |           |
|                               |               |        |               | 3                        |                      | - Wall NW<br>Storage adjacent to Kitchen | 1      |   |                     |               |           |
|                               |               |        |               | 4                        |                      | - Wall - NE                              | 2      | Plester   | 300 SF              |               |           |
|                               |               |        |               | 5                        |                      | - wall SW                                | 2      |   |                     |               |           |
|                               |               |        |               | 6                        |                      | Hallway near Kitchen Entry               | 2      |   |                     |               |           |
|                               |               |        |               | 7                        |                      | - Wall N                                 | 3      |   |                     |               |           |
|                               |               |        |               | 8                        |                      | Kitchen/Break Room<br>- Floor Center     | 4      | 12'x12" grey floor tile<br>Analytic only → w/ plastic<br>4" Brown concrete base | 100 SF              |               |           |
|                               |               |        |               |                          |                      | - Wall under Sink                        |        |   | 6 SF                |               |           |

\* 24 HR TAT  
 \* PLM EPA 600/R-93/116  
 7/1/14 Ninyo & Moore 1:18 pm

**LEAD PAINT CHIP**



# LA Testing

11652 Knott Street Unit F5, Garden Grove, CA 92841

Phone/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com>

[gardengrovelab@latesting.com](mailto:gardengrovelab@latesting.com)

LA Testing Order: 331412382

CustomerID: 32ninm50

CustomerPO:

ProjectID:

Attn: **Michael Cushner**  
**Ninyo & Moore**  
**475 Goddard**  
**Suite 200**  
**Irvine, CA 92618**

Phone: (949) 753-7070  
Fax:  
Received: 07/01/14 1:15 PM  
Collected:

## Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\*

| Lab ID:                | Analyzed | RDL        | Lead Concentration | Notes  |
|------------------------|----------|------------|--------------------|--|
| 0001                   | 7/2/2014 | 0.010 % wt | 0.064 % wt         | Site: Kitchen/Break Room Ceiling SE White Paint<br><i>Collected:</i> |
| <i>Client Sample 1</i> |          |            |                    |  |
| 0002                   | 7/2/2014 | 0.010 % wt | 0.049 % wt         | Site: Kitchen/Break Room Wall S White Paint<br><i>Collected:</i>     |
| <i>Client Sample 2</i> |          |            |                    |  |
| 0003                   | 7/2/2014 | 0.010 % wt | 0.026 % wt         | Site: Kitchen/Break Room Wall NW White Paint<br><i>Collected:</i>    |
| <i>Client Sample 3</i> |          |            |                    |  |

Michael Chapman, Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by LA Testing Garden Grove, CA AIHA-LAP, LLC--ELLAP Accredited #101650, CA ELAP 1406

Initial report from 07/02/2014 10:31:32



## **UPDATES TO THE PHASE I**

February 24, 2015  
Project No. 208885001

Mr. Patrick Zabrocki and  
Ms. Lisa Williams  
LSA Associates, Inc.  
20 Executive Park, Suite 200  
Irvine, California 92614

**Subject:** Update to Hazardous Materials Assessment (June 7, 2013) Prepared for Belmont Pool Revitalization Project

**Reference:** Ninyo & Moore, 2013, Hazardous Materials Assessment, Belmont Pool Revitalization Project, Long Beach, California, (draft) dated June 7.

Dear Mr. Zabrocki and Ms. Williams:

Ninyo & Moore prepared the referenced Hazardous Materials Assessment (HMA) for the Belmont Pool Revitalization Project (Project Site) in June 2013. As requested by LSA Associates, Inc. (LSA), Ninyo & Moore is providing updated information and recommendations regarding two issues: methane and off site Leaking Underground Storage Tank (LUST) facilities.

As part of the HMA, Ninyo & Moore determined that a plugged and abandoned oil well, “Core Hole” 6, is located approximately 2,000 feet (ft) southwest, and a plugged and abandoned dry hole, “Core Hole” 8, is located approximately 2,500 ft southeast of the Belmont Pool Project site. “Water Source Well” B-1 is located in Island White, approximately 5,000 ft southwest of the Project site. Due to the high level of oil availability and production at the Wilmington Oil Field, the presence of subsurface methane gas is a possibility. However, based on the distance to known oil wells in the vicinity of the site, the potential presence of methane is low. The low potential for encountering methane during excavation for the pool would be managed through compliance with a Contingency Plan that addresses the potential to encounter unknown hazards or hazardous substances during construction activities that would be approved by City of Long Beach (City) Fire Department.

The HMA identified two gas stations (ARCO No. 163 and UNOCAL No. 5939) listed on the leaking underground storage tank (LUST) database. These facilities are approximately 0.15 mile northeast and north of the Project site and in a hydrogeologic up-gradient position relative to the site. Based on the facilities’ duration in the site area, their proximity and hydrogeologic up-

gradient position relative to the site (i.e., groundwater flows towards the project site), and the fact that contaminated groundwater was reported beneath the two facilities, the HMA concluded that these gas stations are potential environmental concerns.

A review of the State Water Resources Control Board's GeoTracker website on February 16, 2015, indicated that the UNOCAL station has a case closed status. The ARCO station is in the process of preparing a closure plan. In addition, based on the groundwater sampling performed on November 25, 2014, no petroleum impact was detected in the monitoring well closest to the Project site.

In July 2014, groundwater sampling was conducted for the demolition activities of the former Belmont Pool facility. Results of the groundwater testing revealed concentrations that exceeded the National Pollutant Discharge Elimination System (NPDES) screening levels for some metals (beryllium, copper mercury, nickel, lead, antimony, and zinc) and for some dissolved metals (cadmium, copper, mercury, nickel, lead, and antimony). However, no detectable constituents of gasoline were reported by the laboratory.

Based on the groundwater sampling, there is a potential to encounter dissolved metals levels in groundwater in excess of the allowable limits for discharge to the stormdrain system. This will be addressed through compliance with the applicable NPDES permit. However, the potential that groundwater is impacted by petroleum hydrocarbons beneath the site is low. As discussed above, compliance with the Contingency Plan would address hazardous substances such as petroleum hydrocarbons in groundwater during construction activities.

We appreciate the opportunity to be of service to you on this project.

Sincerely,  
**NINYO & MOORE**



John Jay Roberts, PG, CEG  
Senior Geologist

JJR/NA/mlc

Distribution: (1) Addressee (via e-mail)

# **PHASE I HAZARDOUS MATERIALS ASSESSMENT**

**PHASE I  
HAZARDOUS MATERIALS ASSESSMENT  
BELMONT PLAZA POOL  
4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA**

**DRAFT**

**PREPARED FOR:**

LSA Associates  
703 Palomar Airport Road, Suite 260  
Carlsbad, California 92011

**PREPARED BY:**

Ninyo & Moore  
Geotechnical and Environmental Sciences Consultants  
475 Goddard, Suite 200  
Irvine, California 92618

June 7, 2013  
Project No. 208885001

June 7, 2013  
Project No. 208885001

Ms. Mona McGuire DeLeon, AICP  
703 Palomar Airport Road, Suite 260  
Carlsbad, California 92011

Subject: Phase I Hazardous Materials Assessment  
Belmont Plaza Pool  
4000 East Olympic Plaza  
Long Beach, California

Dear Ms. McGuire DeLeon:

In accordance with our proposal dated May 10, 2013, Ninyo & Moore has performed a Phase I Hazardous Materials Assessment of the above-referenced property (site). The attached report presents our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site.

We appreciate the opportunity to be of service to you on this project.

Sincerely,  
**NINYO & MOORE**

Felipe Vazquez  
Senior Staff Engineer

Beth A. Padgett  
Project Geologist

John Jay Roberts, PG, CEG  
Senior Geologist

FV/BAP/JJR/sc

Distribution: (1) Addressee (via e-mail)

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- Figure 1 – Site Location
- Figure 2 – Site Plan

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- Appendix A – Photographic Documentation
- Appendix B – Environmental Database Search
- Appendix C – Regulatory Agency Documentation

DRAFT

## **1. INTRODUCTION**

LSA Associates (LSA) authorized Ninyo & Moore to perform a Phase I Hazardous Materials Assessment (HMA) of the Belmont Plaza Pool property at 4000 East Olympic Plaza in the city of Long Beach, California (site; Figure 1). The Phase I HMA was conducted in general accordance with Ninyo & Moore's proposal dated May 10, 2013. The following sections identify the purpose, involved parties, scope of services, and limitations and exceptions associated with the Phase I HMA.

### **1.1. Purpose**

The purpose of this HMA was to identify existing or potential soil or groundwater contamination at the site due to current or past land uses at the site. Information herein is intended to aid LSA during their preparation of environmental documents for the Belmont Plaza Pool revitalization project.

### **1.2. Involved Parties**

Mr. Felipe Vazquez of Ninyo & Moore conducted the site reconnaissance and regulatory inquiries. Ms. Beth Padgett and Mr. John Jay Roberts of Ninyo & Moore performed project oversight and quality review.

### **1.3. Scope of Services**

Ninyo & Moore's scope of services for this Phase I HMA includes the activities listed below.

- Reviewed readily available maps and reports pertaining to the site, as provided by the client.
- Performed a site reconnaissance to visually identify areas of possibly contaminated surficial soil or surface water, improperly stored hazardous materials, possible sources of polychlorinated biphenyls (PCBs), and possible risks of contamination from activities at the site and adjacent properties.
- Reviewed readily available local regulatory agency files for the site.
- Reviewed available regulatory agency databases for the site and for properties located within a specified radius of the site. The purpose of this review was to evaluate the possible environmental impact to the site. These databases list locations of known

hazardous waste sites, landfills, leaking underground storage tanks (LUSTs), permitted facilities that utilize underground storage tanks (USTs), and facilities that use, store, or dispose of hazardous materials.

- Prepared this Phase I HMA report documenting findings and providing opinions and conclusions regarding possible environmental impacts at the site.

#### **1.4. Limitations and Exceptions**

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Please note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, it should be noted that this Phase I HMA does not include analysis of the following: asbestos-containing materials (ACMs), methane gas, radon, lead-based paint (LBP), lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein.

Ninyo & Moore should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

Our findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site can change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control. Ninyo & Moore cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous

material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

### **1.5. User Reliance**

This report may be relied upon and is intended exclusively for use by the client. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the client is undertaken at said parties' sole risk.

### **1.6. Physical Limitations**

Physical limitations were not encountered during the site reconnaissance.

### **1.7. Data Gaps**

Data gaps were not encountered during this Phase I HMA.

## **2. GENERAL SITE CHARACTERISTICS**

The following sections describe the location and the current uses of the site. The uses of adjacent properties are also described.

### **2.1. Location**

The site is an approximately 6-acre, irregularly-shaped property at 4000 and 4020 East Olympic Plaza in the city of Long Beach, California (Figure 1). The site is occupied by the City of Long Beach, Parks, Recreation and Marine (at 4000 East Olympic Plaza) and occupied by La Palapa del Mar restaurant (at 4020 East Olympic Plaza).

### **2.2. Current Title Information**

A Title Report was not provided to Ninyo & Moore for review.

### 2.3. Adjacent Properties

**Table 1 – Adjacent Properties**

| <b>Location</b> | <b>Current Occupant(s)</b>  |
|-----------------|---|
| North           | East Olympic Plaza, beyond which are various retail businesses (such as Belmont Shore Children’s Center, Tidy Dog Self-Serve Dog Wash, and Chuck’s Coffee Shop) |
| South           | The beach and the Pacific Ocean   |
| East            | Paved parking spaces and the City of Long Beach, Beach Maintenance, Parks and Recreation  |
| West            | Paved parking lot and the beach   |

### 2.4. Site Description and Current Site Uses/Operations

The following paragraphs present a description of the structures present at the site, the tenants currently occupying the site, if any, the activities being conducted on-site, the heating and cooling systems utilized in the site buildings, the sewage disposal system, and the potable water provider for the site.

#### 2.4.1. Site Description

The Belmont Plaza Pool property is an approximately 6-acre parcel of land (Figure 2), occupied with an indoor Olympic-size pool, an administration office, an outdoor pool, and a restaurant.

The central portion of the main building consists of an indoor Olympic-size pool that was used for swimming events and recreational swimming. The eastern portion of the main building is utilized as an administration office with men’s and women’s locker rooms. The western portion of the main building is utilized as a restaurant and banquet hall.

There is a portable building located on the northeast corner of the main building that is used for office space.

An outdoor pool area is located on the eastern portion of the property with two small storage sheds for storing pool treatment chemicals and other materials.

#### **2.4.2. Occupants**

The site is currently occupied by the City of Long Beach, Parks, Recreation and Marine and La Palapa del Mar restaurant.

#### **2.4.3. Heating and Cooling Systems**

Heating and cooling systems are powered by electricity and natural gas. Southern California Edison provides electricity to the site. The Long Beach Gas and Oil Department provides natural gas to the site.

#### **2.4.4. Sewage Disposal/Septic Systems**

The Long Beach Water Department provides sewer service to the site.

#### **2.4.5. Potable Water**

The Long Beach Water Department provides potable water to the site.

### **3. SITE RECONNAISSANCE**

On May 29, 2012, Mr. Felipe Vazquez of Ninyo & Moore conducted site reconnaissance. The reconnaissance involved a visit to the site and visual observations of adjoining properties. Weather conditions were sunny and clear at the time of the site reconnaissance. Selected photographs taken during the site reconnaissance are included in Appendix A.

#### **3.1. Physical Limitations**

Major physical limitations were not encountered during the site reconnaissance. At the time of the site reconnaissance, access to La Palapa del Mar restaurant was limited to the kitchen area and the banquet area on the second floor of the building. The site contact did not have keys to access the first floor of the restaurant.

#### **3.2. Use and Storage of Hazardous Substances and Petroleum Products**

Two areas where hazardous waste is stored were observed within the site. Two 150-gallon aboveground storage tanks (ASTs), one containing hydrochloric acid and the other, sodium hypochlorite, were observed within a storage shed located at the northwest corner of the outdoor pool area. A 100-gallon AST containing hydrochloric acid, and a 200-gallon AST

with secondary containment containing sodium hypochlorite were observed within the eastern portion of the indoor Olympic pool area. Significant evidence of releases or spills were not observed at these areas and are therefore not considered environmental concerns.

### 3.3. Storage and Disposal of Hazardous Wastes

Storage and disposal of hazardous waste was not observed during our site reconnaissance.

### 3.4. Unidentified Substance Containers

Unidentified substance containers were not observed during our site reconnaissance.

### 3.5. Aboveground and Underground Storage Tanks (ASTs and USTs)

ASTs were observed in the outdoor pool area and within the indoor Olympic pool building (Section 3.2). Detailed AST information can be found in Table 2. USTs were not encountered during the site reconnaissance. Evidence of USTs were not observed during our site reconnaissance.

**Table 2 – AST Information**

| Area                         | Location             | Tank Capacity (Gallons) | Contents            | Comments  |
|------------------------------|----------------------|-------------------------|---------------------|---|
| Outdoor Pool                 | Northwestern portion | 150                     | Sodium Hypochlorite | Minor staining observed, no secondary containment |
|                              | Northwestern portion | 150                     | Hydrochloric Acid   | No staining observed, no secondary containment    |
| Indoor Olympic Pool Building | Western portion      | 200                     | Sodium Hypochlorite | No staining observed, secondary containment noted |
|                              | Western Portion      | 100                     | Hydrochloric Acid   | No staining observed, no secondary containment    |

### 3.6. Evidence of Releases

Minor staining around the 150-gallon AST containing hydrochloric acid was observed. The floor near the AST was in good condition. Other evidence of chemical releases on site (i.e., odors, stressed vegetation, stains, leaks, pools of liquids, and spills) was not observed during our site reconnaissance.

### 3.7. Polychlorinated Biphenyls (PCBs)

Electrical transformers, which can be a source of PCBs, were not observed during our site reconnaissance.

### 3.8. Suspect Asbestos-Containing Materials (ACMs)

Based on the construction date of the site buildings (prior to 1980), ACMs may be present on building materials at the site. Suspect ACMs were observed to be in good condition.

### 3.9. Lead-Based Paint (LBP)

Based on the construction date of the site buildings (prior to 1980), LBP may be present on building materials at the site. Painted surfaces were observed to be in good condition.

### 3.10. Wastewater Systems

Wastewater systems were not observed at the site during the site reconnaissance.

### 3.11. Storm Water Systems

Storm water catch basins and drains were not observed at the site during the site reconnaissance.

### 3.12. Wells

Wells were not observed at the site during the site reconnaissance.

### 3.13. Adjoining Properties

The following table describes the current uses of properties surrounding the site. Ninyo & Moore did not identify a recognized environmental concern (REC) associated with these properties.

**Adjoining Properties**

| Location | Adjoining Properties and Associated Land Use  |
|----------|---|
| North    | East Olympic Plaza beyond which are commercial properties such as the Belmont Shore Children's Center, Yankee Doodles, Tidy Dog, and Chuck's Coffee Shop. |
| South    | The Pacific Ocean   |
| East     | A parking lot and the Beach Maintenance, Park, and Recreation facility.   |
| West     | Surf Terrace Apartments and a parking lot   |

### **3.14. Other On-Site and Off-Site Potential Environmental Concerns (PECs)**

On- or off-site PECs were not observed.

## **4. PHYSICAL SETTING**

The following sections discuss the topography, geology, and hydrology at the site.

### **4.1. Site Topography**

Based on the review of the United States Geological Survey (USGS) 7.5 Minute Series, Long Beach, California, Topographic Quadrangle Map, dated 1964 and photorevised in 1981, the site is situated at an approximate surface elevation of less than 5 feet above mean sea level. The site slopes gently towards the south.

### **4.2. Geology**

The site is underlain by relatively shallow fill soils overlying unconsolidated alluvial deposits. The fill soils in the areas consist of silty sand and sandy silt and range from approximately ½ to 2½ feet in thickness. The alluvial sediments at the site consist of interbedded lenses of loose to medium dense, sand, sand with silt, silty sand, sandy silt, silt, clayey sand, and clay.

### **4.3. Site Hydrology**

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

#### **4.3.1. Surface Waters**

No natural surface waters are located on the site. The Pacific Ocean is located within 500 feet south of the site.

#### **4.3.2. Groundwater**

Groundwater information for the site was not immediately available. Ninyo & Moore reviewed the State Water Resources Control Board's GeoTracker website for groundwa-

ter information in the site vicinity. According to the GeoTracker website, the Atlantic Richfield Company Semi-Annual Groundwater Report dated January 2013, at 3955 East Ocean Boulevard, approximately 700 feet northwest and upgradient of the site, measured depth to groundwater at approximately 13 to 18 feet below ground surface. Groundwater flow is approximately to the southwest (Stantec, 2013).

## 5. HISTORICAL LAND USE

Historical aerial photographs, fire insurance rate maps, and oil and gas maps were reviewed as part of Ninyo & Moore’s Phase I HMA for the site.

### 5.1. Historical Aerial Photographs

Historical aerial photographs for selected years between 1928 and 2012 were provided by Environmental Data Resources, Inc. (EDR). A summary of the aerial photograph review is presented in following table.

**Table 3 – Aerial Photo Review**

| Year      | Site  | Adjacent Areas   |
|-----------|---|--|
| 1928      | Commercial properties   | Vacant properties (north and east), and residential properties (west)  |
| 1938      | Property appeared similar to the 1928 aerial photograph.  | Commercial properties (north), vacant property (north and east), and residential properties (west)                                 |
| 1947      | Property appeared similar to the 1938 aerial photograph.  | Commercial properties (north), vacant properties (north and east), and residential buildings (west)                                |
| 1956      | Property appeared similar to the 1947 aerial photograph.  | Commercial properties (north), parking lot (east), and residential properties (west)   |
| 1968      | Area appeared to be redeveloped with the current building and outdoor pool area, observed at the time of the site reconnaissance. | Commercial properties (north), parking lot and observed maintenance building (east), residential properties and parking lot (west) |
| 1976-2005 | The property appeared similar to the 1968 aerial photograph.  | Same as 1968 aerial photograph.  |
| 2012      | The property appears similar to that observed at the time of the site reconnaissance.   | Same to that observed at the time of the site reconnaissance   |

The 1928 through 1956 aerial photographs show the site occupied with commercial structures. The 1968 through 2012 aerial photographs show the site occupied with current structures. Environmental concerns were not observed in the aerial photographs.

## **5.2. Fire Insurance Rate Maps**

Sanborn Fire Insurance Rate Maps for the subject site and surrounding area were requested from EDR. EDR provided Sanborn maps for the years 1923, 1950, and 1963. In 1923, the central and eastern portion of the site appeared to be vacant while the western portion appeared to have public restrooms, a shop, and residential properties. In 1950, the Belmont Recreation Center appeared to occupy the central and eastern portions of the site. The western portion of the site remained unchanged from the 1923 map. In 1963, the central portion of the property appeared to be vacant, the northeastern portion appeared to have a maintenance shop, and the western portion appeared to have three single story dwellings and in two-story dwelling.

## **5.3. Oil and Gas Maps**

According to the Regional Wildcat Map W1-6, supplied by the State of California, Department of Conservation, Division of Oil, Gas, and Geothermal Resources dated August 16, 2005, the site is located within the Wilmington oil field. A plugged and abandoned oil well, 'Core Hole' 6, is located approximately 2,000 feet southwest and a plugged and abandoned dry hole, 'Core Hole' 8 is located approximately 2,500 feet southeast of the site. 'Water Source Well' B-1 is located in Island White, approximately 5,000 southwest of the site. Because the site is within an oil field, the suspected presence of methane in soil gas is a PEC.

## **6. ENVIRONMENTAL DATABASE SEARCH**

A computerized, environmental information database search was performed by EDR on May 22, 2013. A copy of the EDR report is included in Appendix C.

The following paragraphs describe the databases that contain noted properties of environmental concern, and include a discussion of the regulatory status of the facilities and potential environmental impact to the subject site. Based on our review of the GeoTracker website operated by the Regional Water Quality Control Board (RWQCB) and hydrologic information contained on that website, discussed in Section 4.3.2 of this report, shallow groundwater flow in the site vicinity is generally to the southwest.

**6.1. National Priorities List (NPL): Distance Searched – 1 mile**

The NPL is the United States Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste properties listed for priority remedial actions under the Superfund program.

Neither the site nor properties located within the searched distance are listed on this database.

**6.2. Proposed and Delisted National Priorities List (NPL): Distance Searched – ¼ mile**

The Proposed NPL database lists properties that are currently being evaluated for priority remedial actions for the Superfund program. The Delisted NPL database includes properties that are deleted from the NPL database based upon the National Oil and Hazardous Substances Pollution Contingency Plan. This deletion takes place after no further response to the NPL is appropriate.

Neither the site nor properties located within the searched distance are listed on either database.

**6.3. Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List: Distance Searched – ¼ mile**

The CERCLIS database contains properties which are either proposed or on the NPL and properties which are in the screening and assessment phase for possible inclusion on the NPL.

Neither the site nor properties located within the searched distance are listed on this database.

**6.4. CERCLIS/No Further Remedial Action Planned (NFRAP) List: Distance Searched – ¼ mile**

CERCLIS sites designated as NFRAP have been removed from the CERCLIS database following an initial investigation where no contamination was found, contamination was

removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

Neither the site nor properties located within the searched distance are listed on this database.

**6.5. Corrective Action Report (CORRACTS): Distance Searched – ¼ mile**

The EPA maintains this database of Resource Conservation and Recovery Act (RCRA) facilities that are undergoing corrective action. A corrective action order is issued when a release of hazardous waste or constituents into the environment from a RCRA facility has occurred.

Neither the site nor properties located within the searched distance are listed on this database.

**6.6. Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal (TSD) Facilities List: Distance Searched – ½ mile**

The RCRA TSD database is a compilation by the EPA of facilities that report generation, storage, transportation, treatment, or disposal of hazardous waste.

Neither the site nor properties located within the searched distance are listed on this database.

**6.7. Resource Conservation and Recovery Act (RCRA) Generators List: Distance Searched – Site and Adjacent**

This list identifies sites that generate hazardous waste as defined by RCRA. Inclusion on this list is for permitting purposes and is not indicative of a release.

The site was not listed on this database. 1 HR MOTO PHOTO at 3870 East Ocean Boulevard, adjacent to the northwest and upgradient of the site, was listed on this database as small quantity generator, which generates between 100 and 1,000 kilograms of hazardous waste per month. This listing is not indicative of a release and would not be considered a REC for the site.

**6.8. Emergency Response Notification System (ERNS) List: Distance Searched – Site**

The ERNS database contains information of reported releases of oil and hazardous substances and is maintained by the EPA.

The site is not listed on this database.

**6.9. United States Engineering Controls: Distance Searched – ¼ mile**

This database is an EPA listing of facilities with engineering controls in place, such as various forms of caps, building foundations, liners, and treatment methods intended to eliminate pathways for regulated substances to enter environmental media or affect human health.

Neither the site nor properties located within the searched distance are listed on this database.

**6.10. United States Institutional Controls: Distance Searched – ¼ mile**

This database is an EPA listing of facilities with institutional controls in place, such as administrative measures, groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements, intended to prevent exposure to contaminants remaining on site.

Neither the site nor properties located within the searched distance are listed on this database.

**6.11. State Sites: Distance Searched – ¼ mile**

The State Sites database consists of potential or confirmed hazardous substance release properties. Ninyo & Moore reviewed the State Response Sites database for this information.

Neither the site nor properties located within the searched distance are listed on this database.

**6.12. State CERCLIS: Distance Searched – ¼ mile**

The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s EnviroStor database identifies facilities that have known contamination of sites for which there may be reasons to investigate further.

Neither the site nor properties located within the searched distance are listed on this database.

**6.13. Solid Waste Landfill Sites (SWL): Distance Searched – ¼ mile**

The SWL database consists of open and closed solid waste disposal facilities and transfer stations. The data comes from the Integrated Waste Management Department’s Solid Waste Information System database.

Neither the site nor properties located within the searched distance are listed on this database.

**6.14. State Leaking Underground Storage Tank (LUST) Lists: Distance Searched – ¼ mile**

Databases of the LUST information system are maintained by the California State RWQCBs.

The site was not listed on the LUST database. Six listings, representing four facilities were listed on the LUST database.

| Listing and Address                                      | Distance and Direction    | Gradient Direction | Regulatory Status              | Closure Date | Environmental Concern (Y/N) |
|--|---------------------------|--------------------|--------------------------------|--------------|-----------------------------|
| Tichy Property (Former Gas SS)<br>4000 Ocean Boulevard E | 0.09 mile north           | upgradient         | Closed                         | 08/26/2002   | N                           |
| Olympic Plaza<br>4320 Olympic Plaza E                    | 0.10 mile east            | crossgradient      | Closed                         | 09/21/1995   | N                           |
| ARCO #1063<br>3955 Ocean Boulevard E                     | 0.15 mile north-northeast | upgradient         | Open - Verification Monitoring | N/A          |                             |

| Listing and Address  | Distance and Direction | Gradient Direction | Regulatory Status   | Closure Date | Environmental Concern (Y/N) |
|--|------------------------|--------------------|---------------------|--------------|-----------------------------|
| UNOCAL #5939<br>76 Termino Avenue                          | 0.116 mi north         | upgradient         | Open - Verification | N/A          |                             |
| <b>Notes:</b><br>N – No<br>N/A – Not Applicable<br>Y – Yes |                        |                    |                     |              |                             |

Based on the current regulatory status, the potential contaminants of concern, the media affected, location, and lack of information, ARCO #1063 at 3955 Ocean Boulevard and UNOCAL #5939 at 76 Termino Avenue, both located northwest and upgradient to the site, are considered a PEC.

**6.15. Underground Storage Tank (UST) Registration List: Distance Searched – Site and Adjacent**

According to EDR, UST records are provided by the Department of Building and Fire Safety. Inclusion of facilities on this list does not necessarily indicate a release.

The site is not listed on this database. The adjacent property, Beach Maintenance, Park and Recreation at 4130 East Ocean Boulevard adjacent to the west and crossgradient of the site is listed on this database. Additional information was not provided for the listed property. This facility is not listed on the LUST database, and this listing alone is not indicative of a release and would not be considered a PEC to the site.

**6.16. Permitted Aboveground Storage Tank (AST) List: Distance Searched – Site and Adjacent**

According to EDR, AST records are provided by the Department of Building and Fire Safety. Inclusion of facilities on this list does not necessarily indicate a release.

The site and adjacent properties are not listed on this database.

**6.17. State Engineering Controls: Distance Searched – ¼ mile**

This database is a California Environmental Protection Agency (Cal-EPA) listing of facilities with engineering controls in place, such as various forms of caps, building foundations, liners, and treatment methods intended to eliminate pathways for regulated substances to enter environmental media or affect human health.

Neither the site nor properties located within the searched distance are listed on this database.

**6.18. State Institutional Controls: Distance Searched – ¼ mile**

This database is a Cal-EPA listing of facilities with institutional controls in place, such as administrative measures, groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements, intended on preventing exposure to contaminants remaining on site.

Neither the site nor properties located within the searched distance are listed on this database.

**6.19. Brownfields: Distance Searched – ¼ mile**

This database is a DTSC tracking system of California Brownfields sites.

Neither the site nor properties located within the searched distance are listed on this database.

**6.20. State Other: Distance Searched – ½ mile**

This database is a DTSC database of sites with known contamination or uncharacterized properties where further studies may reveal problems.

Neither the site nor properties located within the searched distance are listed on this database.

**6.21. Indian Reservation: Distance Searched – ¼ mile**

USGS map layer portrays Indian administered land within the United States with an area equal to or greater than 640 acres.

No Indian reservation land was found to be within the searched distance.

**6.22. Indian Leaking Underground Storage Tank (LUST): Distance Searched – ½ mile**

This database is a database maintained by the EPA of LUSTs on Indian land in Arizona, California, New Mexico, and Nevada.

Neither the site nor properties located within the searched distance are listed on this database.

**6.23. Indian Underground Storage Tank (UST): Distance Searched – ¼ mile**

This database is a database maintained by the EPA of USTs on Indian land.

Neither the site nor properties located within the searched distance are listed on this database.

**7. ENVIRONMENTAL RECORDS REVIEW**

Ninyo & Moore requested to review records from the City of Long Beach Fire Department (LBFD), Los Angeles Department of Public Works (LADPW), City of Long Beach Health and Human Services (LBHHS), DTSC, RWQCB, and the South Coast Air Quality Management District (SCAQMD).

**7.1. City of Long Beach Fire Department (LBFD)**

Ninyo & Moore made a request to the LBFD to review records that may be available for the site address. According to the LBFD, the site was cited for a minor violation on April 29, 2013, for failing to submit a Business Emergency Plan. This minor violation does not present an environmental concern.

**7.2. Los Angeles Department of Public Works (LADPW)**

Ninyo & Moore made a request to the LADPW to review records that may be available for the site address. According to the LADPW, no records for the site address were found.

**7.3. City of Long Beach Health and Human Services (LBHHS)**

Ninyo & Moore made a request to the LBHHS to review records that may be available for the site address. According to the LBHHS, there is no information on file for the site.

**7.4. Department of Toxic Substances Control**

Ninyo & Moore made requests to the DTSC – Cypress and Chatsworth Offices to review records that may be available for the site address. According to the DTSC – Cypress Office, no such records exist for the site address. The DTSC – Chatsworth Office has not yet provided a response to our request. If the DTSC – Chatsworth Office has records relating to the site that contain environmental concerns, the report will be revised to include such information.

**7.5. Regional Water Quality Control Board**

Ninyo & Moore made requests to the RWQCB to review records that may be available for the site address. The RWQCB has not yet provided a response to our request. If the RWQCB has records relating to the site that contain environmental concerns, the report will be revised to include such information.

**7.6. South Coast Air Quality Management District**

Ninyo & Moore reviewed the SCAQMD's Facility Information Detail Search website for permits regarding the site address. According to the SCAQMD, records were not available for the site.

## 8. CONCLUSIONS

Ninyo & Moore completed a Phase I HMA for the Belmont Plaza Pool at 4000 East Olympic Plaza in Long Beach, California. The Phase I HMA revealed the following potential issues of concern:

- **Building Materials** – Based on the dates of construction (from at least 1968), site buildings designated for future demolition or renovation may contain asbestos or LBP.
- **Hazardous Materials** – Two areas where hazardous waste is stored were observed within the site. Two 150-gallon ASTs, one containing hydrochloric acid and the other, sodium hypochlorite, were observed within a storage shed located at the northwest corner of the outdoor pool area. A 100-gallon AST containing hydrochloric acid and a 200-gallon AST with secondary containment containing sodium hypochlorite were observed within the eastern portion of the indoor olympic pool area. Evidences of releases or spills were not observed at these areas and are therefore not considered environmental concerns.
- **Environmental Database Report** – The Belmont Plaza Pool was not listed in the environmental databases searched by EDR.
- Because the site is within an oil field, the suspected presence of methane in soil gas is a PEC.
- **Off-Site Issues** – Based on the current regulatory status, the potential contaminants of concern, the media affected, location, and lack of information, ARCO #1063 at 3955 Ocean Boulevard and UNOCAL #5939 at 76 Termino Avenue, both located northwest and upgradient to the site, are considered a PEC.

## 9. PROJECT IMPACTS AND MITIGATION MEASURES

The following paragraphs discuss the Potential Significant Project Impacts, Feasible Mitigation Measures, and Potential Project Impacts not Fully Mitigated to Less than Significant.

### 9.1. Potential Significant Project Impacts

Potential Significant Project Impacts include the known or probable presence of soil contamination where remediation has not been performed, is incomplete, or is not documented. Potential Significant Project Impacts also include asbestos and LBP in buildings that may be demolished or renovated. The following direct Potential Significant Project Impacts have been identified:

- **Building Materials** – Demolition of structures built prior to 1980 may result in the exposure of the public and/or the environment to LBP and/or ACMs in buildings.
- Because the site is within an oil field, the suspected presence of methane in soil gas is a PEC.
- **Off-Site Issues** – Based on the current regulatory status, the potential contaminants of concern, the media affected, location, and lack of information, ARCO #1063 at 3955 Ocean Boulevard and UNOCAL #5939 at 76 Termino Avenue, both located northwest and upgradient to the site, are considered a PEC.

## 9.2. Feasible Mitigation Measures

Feasible mitigation measures may reduce each of the listed project impacts to less than significant. The following are the feasible mitigation measures for each of the listed project impacts:

- Prior to start of construction activities, a methane survey should be performed in accordance with applicable regulations by the LBFD.
- Prior to construction activities, ACMs and LBP should be evaluated in the buildings to be demolished or renovated. Abatement measures should be implemented in accordance with the recommendations of these evaluations.
- Prior to start of construction, we recommend additional investigation of the two upgradient LUST facilities to evaluate their potential impact to the site.

## 9.3. Potential Project Impacts Not Fully Mitigated to Less Than Significant

Based on the information evaluated to date, there are no direct Potential Significant Project Impacts that cannot be mitigated to less than significant.

## 10. REFERENCES

- California Department of Conservation, Division of Oil and Gas, 2005, Regional Wildcat Map W 1-6, Dated August 16.
- California Department of Conservation, Division of Oil and Gas, 2013, Online Mapping System at [maps.conservation.ca.gov/doms/index.html](http://maps.conservation.ca.gov/doms/index.html).
- Environmental Data Resources, Inc., 2013, The EDR Radius Map Report, dated May 22.
- Ninyo & Moore, 2010, "Supplemental Geotechnical Evaluation, 2<sup>nd</sup> Street and Pacific Coast Highway, Long Beach, California," dated October 15.
- Stantec Consulting Services, 2013, "Atlantic Richfield Company Semi-Annual Report, Second Half, 2012," 3955 East Ocean Boulevard, Long Beach, California, dated January 15.
- State of California's State Water Resources Control Board, 2013, GeoTracker Database System at <http://geotracker.swrcb.ca.gov/>.
- United States Geological Survey, 1964, Long Beach, California: 7.5-minute Series, Topographic, Scale 1:24,000: Photorevised 1981.

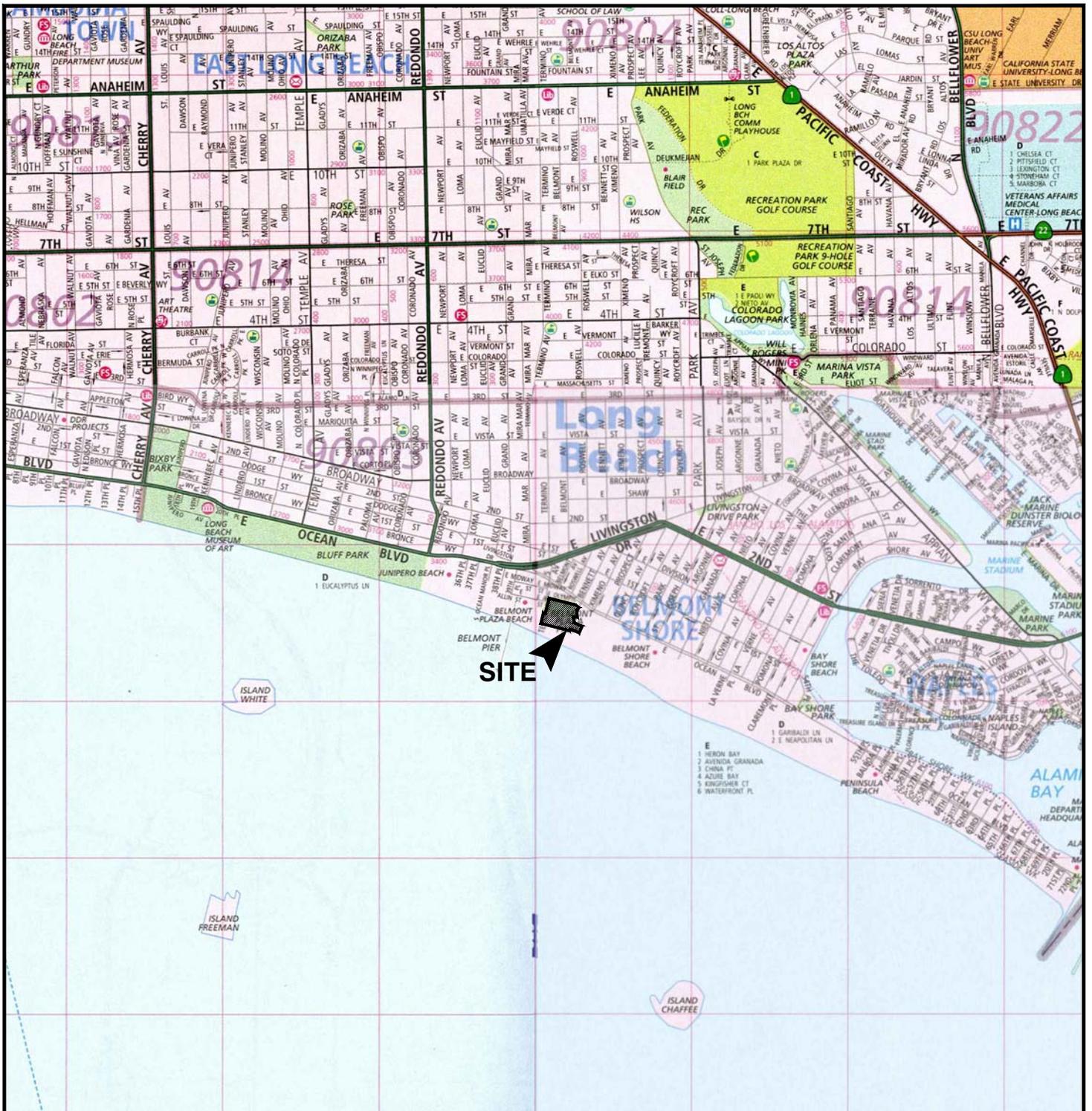
**11. QUALIFICATIONS STATEMENT AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL**

Mr. John Jay Roberts states that the Phase I HMA was performed under his direct supervision and that he has reviewed and approved the report and the methods and procedures employed in the development of the report confirm to the minimum industry standards. Mr. Roberts certifies that Ninyo & Moore project personnel and subcontractors are properly licensed and/or certified to do the work described herein.

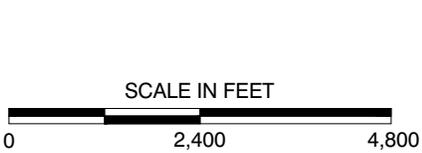
---

John Jay Roberts, PG, CEG  
Senior Geologist

DRAFT



REFERENCE: 52ND EDITION, THOMAS GUIDE FOR LOS ANGELES/ORANGE COUNTIES, STREET GUIDE AND DIRECTORY.



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.  
Map © Rand McNally, R.L.07-S-129

**Ninyo & Moore**

**SITE LOCATION**

FIGURE

|             |      |
|-------------|------|
| PROJECT NO. | DATE |
| 208885001   | 6/13 |

BELMONT PLAZA POOL  
4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

**1**



REFERENCE: GGOOGLE EARTH AERIAL PHOTO, 2013.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

**LEGEND**

- SITE BOUNDARY
- 4000 STREET ADDRESS

**Ninyo & Moore**

**SITE PLAN**

FIGURE

|             |      |
|-------------|------|
| PROJECT NO. | DATE |
| 208885001   | 6/13 |

BELMONT PLAZA POOL  
4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

**2**

**APPENDIX A**  
**PHOTOGRAPHIC DOCUMENTATION**



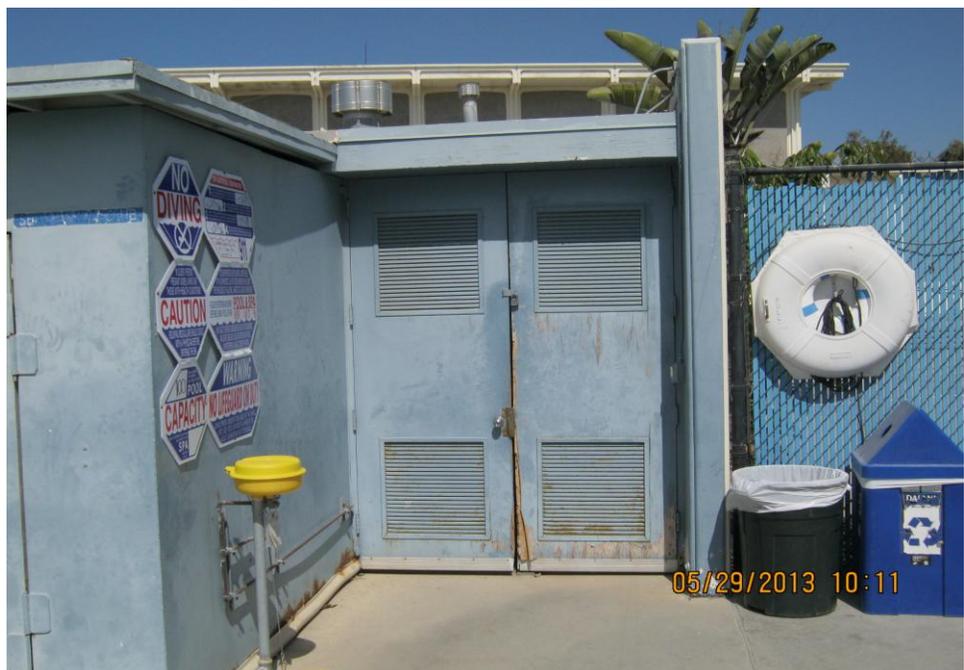
**Photograph 1:** Looking south at the indoor olympic-size pool and La Palapa del Mar Restaurant.



**Photograph 2:** Looking southeast at the indoor olympic-size pool.



**Photograph 3:** Looking east at the outdoor pool area.



**Photograph 4:** Looking at the storage shed located at the northwest corner of the outdoor pool area.



**Photograph 5:** Looking inside the storage shed at the 150-gallon aboveground storage tanks (ASTs) containing hydrochloric acid and sodium hypochlorite.



**Photograph 6:** A typical view of the locker rooms located at the eastern portion of the central portion of the site.



**Photograph 7:** Typical cleaning products stored within the locker rooms at the central portion of the site.



**Photograph 8:** A typical staff office located at the central portion of the site.



**Photograph 9:** Looking at the indoor olympic-size pool.



**Photograph 10:** Looking inside the filter located at the western portion of the indoor olympic-size pool area.



**Photograph 11:** Looking at the hydrochloric acid and sodium hypochlorite tanks located within the indoor olympic-size pool area.



**Photograph 12:** Looking at the southern entrance to the La Palapa del Mar restaurant.



**Photograph 13:** Looking at a typical storage area on the western portion of the site.



**Photograph 14:** Looking north away from the site at East Olympic Plaza, beyond which are commercial properties.



**Photograph 15:** Looking at the City Beach Maintenance building located east of the site.



**Photograph 16:** Looking south away from the site, beyond which is the Pacific Ocean.



**Photograph 17:** Looking west away from the site, beyond which are a public beach and a paved parking lot.

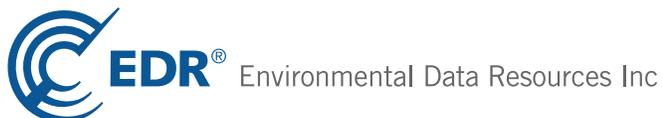
**APPENDIX B**  
**ENVIRONMENTAL DATABASE SEARCH**

**Belmont Plaza Pool**

4000 East Olympic Plaza  
Long Beach, CA 90803

Inquiry Number: 3629297.1s  
June 06, 2013

**The EDR Radius Map™ Report with GeoCheck®**



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

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## EXECUTIVE SUMMARY

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

### TARGET PROPERTY INFORMATION

#### ADDRESS

4000 EAST OLYMPIC PLAZA  
LONG BEACH, CA 90803

#### COORDINATES

Latitude (North): 33.7581000 - 33° 45' 29.16"  
Longitude (West): 118.1461000 - 118° 8' 45.96"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 393856.0  
UTM Y (Meters): 3735731.5  
Elevation: 6 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 33118-G2 LONG BEACH (DIGITAL), CA  
Most Recent Revision: 1964  
  
South Map: 33118-F2 LONG BEACH OE S, CA  
Most Recent Revision: 0

### AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2012  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

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

### STANDARD ENVIRONMENTAL RECORDS

#### *Federal NPL site list*

NPL..... National Priority List

## EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

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

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

### ***State- and tribal - equivalent NPL***

RESPONSE..... State Response Sites

### ***State- and tribal - equivalent CERCLIS***

ENVIROSTOR..... EnviroStor Database

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Solid Waste Information System

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

AST..... Aboveground Petroleum Storage Tank Facilities

INDIAN UST..... Underground Storage Tanks on Indian Land

FEMA UST..... Underground Storage Tank Listing

### ***State and tribal voluntary cleanup sites***

VCP..... Voluntary Cleanup Program Properties

# EXECUTIVE SUMMARY

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Brownfield lists**

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

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

WMUDS/SWAT..... Waste Management Unit Database

SWRCY..... Recycler Database

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

HIST Cal-Sites..... Historical Calsites Database

Toxic Pits..... Toxic Pits Cleanup Act Sites

### **Local Land Records**

LIENS 2..... CERCLA Lien Information

LIENS..... Environmental Liens Listing

### **Other Ascertainable Records**

CA BOND EXP. PLAN..... Bond Expenditure Plan

Notify 65..... Proposition 65 Records

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

Sites listed in **bold italics** are in multiple databases.

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

## STANDARD ENVIRONMENTAL RECORDS

### **Federal RCRA generators list**

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1

## EXECUTIVE SUMMARY

RCRA-SQG site within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>    | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|-------------------|-----------------------------|---------------|-------------|
| 1 HR MOTO PHOTO               | 3870 E OCEAN BLVD | NW 1/8 - 1/4 (0.144 mi.)    | D26           | 38          |

### ***Federal ERNS list***

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2012 has revealed that there are 5 ERNS sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>     | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|--------------------|-----------------------------|---------------|-------------|
| Not reported                  | 4217 E. OCEAN      | NE 0 - 1/8 (0.068 mi.)      | B6            | 9           |
| Not reported                  | 3955 E OCEAN BLVD  | N 0 - 1/8 (0.081 mi.)       | C11           | 22          |
| Not reported                  | 20 NORTH GRAND AVE | NNW 1/8 - 1/4 (0.165 mi.)   | D27           | 39          |
| Not reported                  | 20 GRAND AVE       | NNW 1/8 - 1/4 (0.165 mi.)   | D28           | 39          |
| Not reported                  | 3915 EAST 2ND ST   | N 1/8 - 1/4 (0.246 mi.)     | E33           | 44          |

### ***State and tribal leaking storage tank lists***

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

A review of the LUST list, as provided by EDR, and dated 03/18/2013 has revealed that there are 6 LUST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u>   | <u>Address</u>       | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|----------------------|-----------------------------|---------------|-------------|
| TICHY PROPERTY (FORMER GAS SS)<br>Status: Completed - Case Closed                       | 4000 OCEAN BLVD E    | N 0 - 1/8 (0.061 mi.)       | A5            | 7           |
| OLYMPIC PLAZA<br>Status: Completed - Case Closed  | 4320 OLYMPIC PLAZA E | ENE 0 - 1/8 (0.077 mi.)     | B7            | 10          |
| ARCO #1063<br>Status: Completed - Case Closed<br>Status: Open - Verification Monitoring | 3955 OCEAN BLVD E    | N 0 - 1/8 (0.081 mi.)       | C9            | 12          |
| UNOCAL #5939<br>Status: Open - Site Assessment<br>Status: Completed - Case Closed       | 76 TERMINO AVE       | N 0 - 1/8 (0.116 mi.)       | C13           | 23          |
| UNOCAL #5939  | 76 TERMINO AVE       | N 0 - 1/8 (0.116 mi.)       | C14           | 30          |
| TOSCO - 76 STATION #5939  | 76 TERMINO AVE       | N 0 - 1/8 (0.116 mi.)       | C19           | 34          |

## EXECUTIVE SUMMARY

### ***State and tribal registered storage tank lists***

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

A review of the UST list, as provided by EDR, and dated 03/18/2013 has revealed that there are 12 UST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u>  | <u>Address</u>     | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--------------------------------|--------------------|-----------------------------|---------------|-------------|
| Not reported                   | 0022 S TERMINO AVE | N 0 - 1/8 (0.017 mi.)       | A1            | 6           |
| Not reported                   | 4130 E OCEAN BLVD  | NE 0 - 1/8 (0.054 mi.)      | B2            | 6           |
| Not reported                   | 4130 W OCEAN BLVD  | NE 0 - 1/8 (0.055 mi.)      | B3            | 6           |
| Not reported                   | 4000 E OCEAN BLVD  | N 0 - 1/8 (0.060 mi.)       | A4            | 6           |
| ARCO CORP SITE #01063 (3 D/W J | 3955 E OCEAN BLVD  | N 0 - 1/8 (0.081 mi.)       | C8            | 12          |
| BELMONT 76 (UNOCAL #5939) (3 D | 0076 TERMINO AVE   | N 0 - 1/8 (0.116 mi.)       | C18           | 34          |
| VONS STORE # 280               | 3900 E OCEAN BLVD  | NNW 1/8 - 1/4 (0.127 mi.)   | D21           | 36          |
| VONS STORE # 280               | 3900 E OCEAN BLVD  | NNW 1/8 - 1/4 (0.127 mi.)   | D22           | 37          |
| Not reported                   | 4007 LIVINGSTON DR | N 1/8 - 1/4 (0.132 mi.)     | 23            | 37          |
| Not reported                   | 3870 W OCEAN BLVD  | NW 1/8 - 1/4 (0.144 mi.)    | D24           | 37          |
| Not reported                   | 3870 E OCEAN BLVD  | NW 1/8 - 1/4 (0.144 mi.)    | D25           | 37          |
| Not reported                   | 0200 S TERMINO AVE | N 1/8 - 1/4 (0.244 mi.)     | E31           | 42          |

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Lists of Registered Storage Tanks***

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

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>           | <u>Direction / Distance</u>  | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|--------------------------|------------------------------|---------------|-------------|
| <b>ARCO FACILITY #1063</b>    | <b>3955 E OCEAN BLVD</b> | <b>N 0 - 1/8 (0.081 mi.)</b> | <b>C10</b>    | <b>20</b>   |
| <b>SERVICE STATION 5939</b>   | <b>76 TERMINO AVE</b>    | <b>N 0 - 1/8 (0.116 mi.)</b> | <b>C16</b>    | <b>32</b>   |

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u>  | <u>Address</u>    | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--------------------------------|-------------------|-----------------------------|---------------|-------------|
| SHORELINE ENTERPRISES INC      | 3955 E OCEAN BLVD | N 0 - 1/8 (0.081 mi.)       | C12           | 22          |
| SERVICE STATION 5939           | 76 TERMINO AVE    | N 0 - 1/8 (0.116 mi.)       | C15           | 31          |
| UNION OIL SERVICE STATION LEAS | 76 TERMINO AVE    | N 0 - 1/8 (0.116 mi.)       | C17           | 33          |

## EXECUTIVE SUMMARY

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

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>           | <u>Direction / Distance</u>  | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|--------------------------|------------------------------|---------------|-------------|
| <i>ARCO FACILITY #1063</i>    | <i>3955 E OCEAN BLVD</i> | <i>N 0 - 1/8 (0.081 mi.)</i> | <i>C10</i>    | <i>20</i>   |
| <i>SERVICE STATION 5939</i>   | <i>76 TERMINO AVE</i>    | <i>N 0 - 1/8 (0.116 mi.)</i> | <i>C16</i>    | <i>32</i>   |

### ***Records of Emergency Release Reports***

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/06/2012 has revealed that there are 6 CHMIRS sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>          | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|-------------------------|-----------------------------|---------------|-------------|
| Not reported                  | 3900 EAST OCEAN BLVD    | NNW 1/8 - 1/4 (0.127 mi.)   | D20           | 35          |
| Not reported                  | 20 GRAND AVENUE, SITE:  | NNW 1/8 - 1/4 (0.165 mi.)   | D29           | 39          |
| Not reported                  | 20 NORTH GRAND AVE      | NNW 1/8 - 1/4 (0.165 mi.)   | D30           | 41          |
| Not reported                  | 3935 EAST SECOND STREET | N 1/8 - 1/4 (0.245 mi.)     | E32           | 42          |
| Not reported                  | 3915 E 2ND ST           | N 1/8 - 1/4 (0.246 mi.)     | E34           | 44          |
| Not reported                  | DIVISION ST AND BENNETT | NE 1/8 - 1/4 (0.249 mi.)    | 35            | 45          |

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 8 records.

| <u>Site Name</u>                   | <u>Database(s)</u> |
|------------------------------------|--------------------|
| CITY DUMP AND SALVAGE              | SWF/LF             |
| CROSBY AND OVERTON                 | SWF/LF             |
| COVERSTREET STOCKPILE              | SWF/LF             |
| WEISSKER, HERMAN INC.              | SWF/LF             |
| LONG BEACH CITY MAINT. YARD        | LUST               |
| CHEVRON-ALAMITOS BAY PARTNERSH     | LUST               |
| CITY OF L.B. BEACH MAINT (2 D/W JO | UST                |
| L 1019 LAWP HAYNES FACILITY        | RCRA-LQG           |

# OVERVIEW MAP - 3629297.1s



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 National Priority List Sites

 County Boundary

 Power transmission lines

 Oil & Gas pipelines from USGS

 100-year flood zone

 500-year flood zone

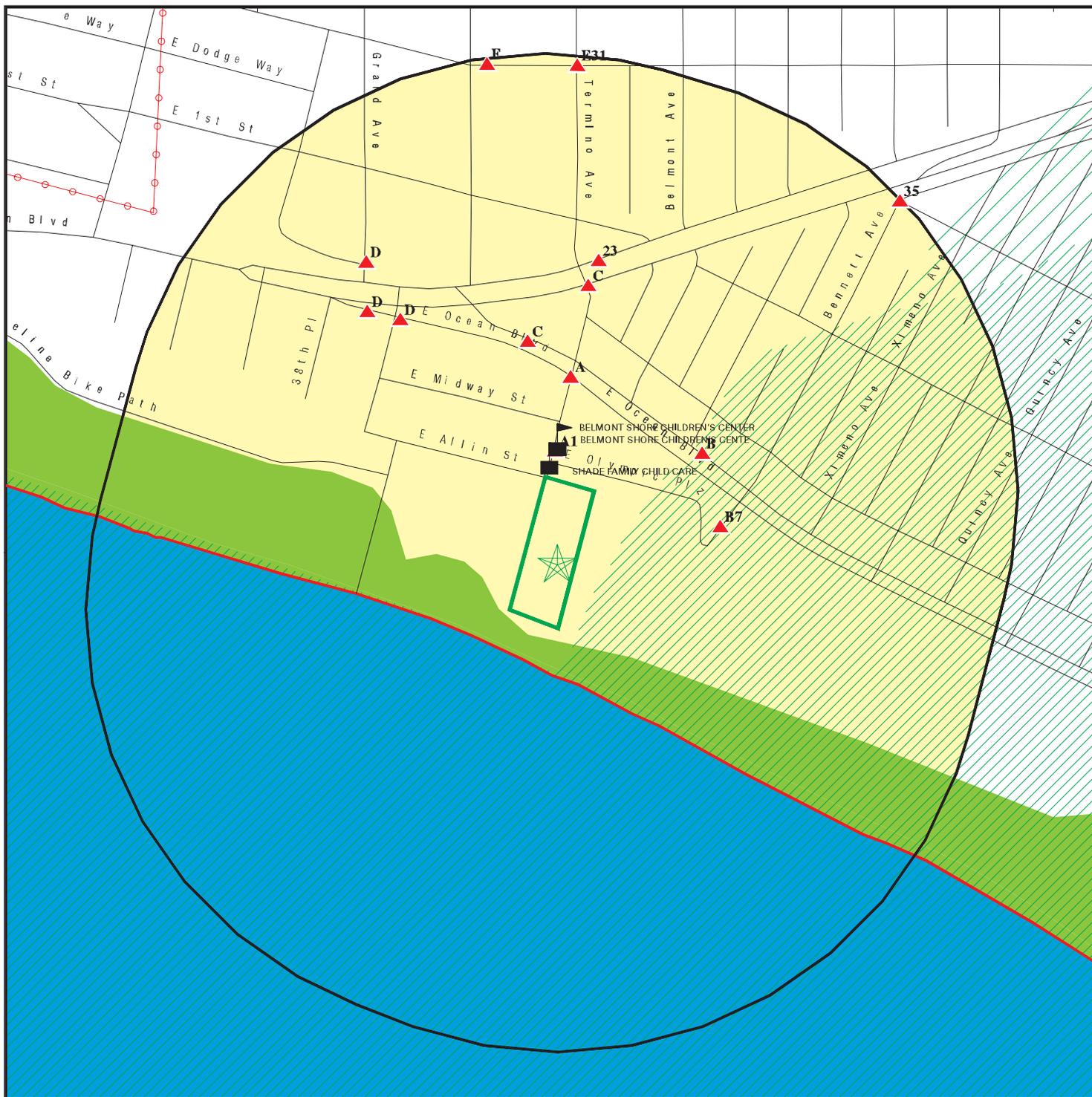
 National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Belmont Plaza Pool  
 ADDRESS: 4000 East Olympic Plaza  
 Long Beach CA 90803  
 LAT/LONG: 33.7581 / 118.1461

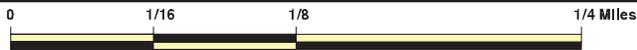
CLIENT: Ninyo & Moore  
 CONTACT: Felipe Vazquez  
 INQUIRY #: 3629297.1s  
 DATE: June 06, 2013 6:28 pm

# DETAIL MAP - 3629297.1s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Sensitive Receptors
- National Priority List Sites

- County Boundary
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Belmont Plaza Pool  
 ADDRESS: 4000 East Olympic Plaza  
 Long Beach CA 90803  
 LAT/LONG: 33.7581 / 118.1461

CLIENT: Ninyo & Moore  
 CONTACT: Felipe Vazquez  
 INQUIRY #: 3629297.1s  
 DATE: June 06, 2013 6:29 pm

## MAP FINDINGS SUMMARY

| Database   | Search<br>Distance<br>(Miles) | Target<br>Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total<br>Plotted |
|--|-------------------------------|--------------------|-------|-----------|-----------|---------|-----|------------------|
| <b>STANDARD ENVIRONMENTAL RECORDS</b>  |                               |                    |       |           |           |         |     |                  |
| <b><i>Federal NPL site list</i></b>  |                               |                    |       |           |           |         |     |                  |
| NPL  | 1.000                         |                    | 0     | 0         | 0         | 0       | NR  | 0                |
| Proposed NPL   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Federal Delisted NPL site list</i></b>                                       |                               |                    |       |           |           |         |     |                  |
| Delisted NPL   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Federal CERCLIS list</i></b>   |                               |                    |       |           |           |         |     |                  |
| CERCLIS  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Federal CERCLIS NFRAP site List</i></b>                                      |                               |                    |       |           |           |         |     |                  |
| CERC-NFRAP   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Federal RCRA CORRACTS facilities list</i></b>                                |                               |                    |       |           |           |         |     |                  |
| CORRACTS   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>                        |                               |                    |       |           |           |         |     |                  |
| RCRA-TSDF  | 0.500                         |                    | 0     | 0         | 0         | NR      | NR  | 0                |
| <b><i>Federal RCRA generators list</i></b>   |                               |                    |       |           |           |         |     |                  |
| RCRA-LQG   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| RCRA-SQG   | 0.250                         |                    | 0     | 1         | NR        | NR      | NR  | 1                |
| <b><i>Federal institutional controls /<br/>engineering controls registries</i></b> |                               |                    |       |           |           |         |     |                  |
| US ENG CONTROLS  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| US INST CONTROL  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Federal ERNS list</i></b>  |                               |                    |       |           |           |         |     |                  |
| ERNS   | 0.250                         |                    | 2     | 3         | NR        | NR      | NR  | 5                |
| <b><i>State- and tribal - equivalent NPL<br/>RESPONSE</i></b>                      |                               |                    |       |           |           |         |     |                  |
| RESPONSE   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>State- and tribal - equivalent CERCLIS</i></b>                               |                               |                    |       |           |           |         |     |                  |
| ENVIROSTOR   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>State and tribal landfill and/or<br/>solid waste disposal site lists</i></b> |                               |                    |       |           |           |         |     |                  |
| SWF/LF   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>State and tribal leaking storage tank lists</i></b>                          |                               |                    |       |           |           |         |     |                  |
| LUST   | 0.250                         |                    | 6     | 0         | NR        | NR      | NR  | 6                |
| INDIAN LUST  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>State and tribal registered storage tank lists</i></b>                       |                               |                    |       |           |           |         |     |                  |
| UST  | 0.250                         |                    | 6     | 6         | NR        | NR      | NR  | 12               |

## MAP FINDINGS SUMMARY

| Database   | Search<br>Distance<br>(Miles) | Target<br>Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total<br>Plotted |
|--|-------------------------------|--------------------|-------|-----------|-----------|---------|-----|------------------|
| AST  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| INDIAN UST   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| FEMA UST   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>State and tribal voluntary cleanup sites</i></b>             |                               |                    |       |           |           |         |     |                  |
| VCP  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>                     |                               |                    |       |           |           |         |     |                  |
| <b><i>Local Brownfield lists</i></b>                               |                               |                    |       |           |           |         |     |                  |
| US BROWNFIELDS   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b> |                               |                    |       |           |           |         |     |                  |
| WMUDS/SWAT   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| SWRCY  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>  |                               |                    |       |           |           |         |     |                  |
| HIST Cal-Sites   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| Toxic Pits   | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Local Lists of Registered Storage Tanks</i></b>              |                               |                    |       |           |           |         |     |                  |
| CA FID UST   | 0.250                         |                    | 2     | 0         | NR        | NR      | NR  | 2                |
| HIST UST   | 0.250                         |                    | 3     | 0         | NR        | NR      | NR  | 3                |
| SWEEPS UST   | 0.250                         |                    | 2     | 0         | NR        | NR      | NR  | 2                |
| <b><i>Local Land Records</i></b>                                   |                               |                    |       |           |           |         |     |                  |
| LIENS 2  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| LIENS  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| <b><i>Records of Emergency Release Reports</i></b>                 |                               |                    |       |           |           |         |     |                  |
| CHMIRS   | 0.250                         |                    | 0     | 6         | NR        | NR      | NR  | 6                |
| <b><i>Other Ascertainable Records</i></b>                          |                               |                    |       |           |           |         |     |                  |
| CA BOND EXP. PLAN  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| Notify 65  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

|           |      |  |  |  |  |             |  |  |               |
|-----------|------|--|--|--|--|-------------|--|--|---------------|
| Map ID    |      |  |  |  |  |             |  |  |               |
| Direction |      |  |  |  |  |             |  |  |               |
| Distance  |      |  |  |  |  |             |  |  | EDR ID Number |
| Elevation | Site |  |  |  |  | Database(s) |  |  | EPA ID Number |

|                  |                                 |              |  |  |  |  |  |  |            |                   |
|------------------|---------------------------------|--------------|--|--|--|--|--|--|------------|-------------------|
| <b>A1</b>        |                                 |              |  |  |  |  |  |  | <b>UST</b> | <b>U003920318</b> |
| <b>North</b>     | <b>0022 S TERMINO AVE</b>       |              |  |  |  |  |  |  |            | <b>N/A</b>        |
| <b>&lt; 1/8</b>  | <b>LONG BEACH, CA</b>           |              |  |  |  |  |  |  |            |                   |
| <b>0.017 mi.</b> |                                 |              |  |  |  |  |  |  |            |                   |
| <b>88 ft.</b>    | <b>Site 1 of 3 in cluster A</b> |              |  |  |  |  |  |  |            |                   |
| <b>Relative:</b> | <b>LONG BEACH UST:</b>          |              |  |  |  |  |  |  |            |                   |
| <b>Higher</b>    | Region:                         | LONG BEACH   |  |  |  |  |  |  |            |                   |
|                  | Tank Code:                      | Not reported |  |  |  |  |  |  |            |                   |
| <b>Actual:</b>   | Tank Test:                      | Not reported |  |  |  |  |  |  |            |                   |
| <b>12 ft.</b>    | Leak Test:                      | Not reported |  |  |  |  |  |  |            |                   |

|                  |                                 |              |  |  |  |  |  |  |            |                   |
|------------------|---------------------------------|--------------|--|--|--|--|--|--|------------|-------------------|
| <b>B2</b>        |                                 |              |  |  |  |  |  |  | <b>UST</b> | <b>U003920156</b> |
| <b>NE</b>        | <b>4130 E OCEAN BLVD</b>        |              |  |  |  |  |  |  |            | <b>N/A</b>        |
| <b>&lt; 1/8</b>  | <b>LONG BEACH, CA</b>           |              |  |  |  |  |  |  |            |                   |
| <b>0.054 mi.</b> |                                 |              |  |  |  |  |  |  |            |                   |
| <b>286 ft.</b>   | <b>Site 1 of 4 in cluster B</b> |              |  |  |  |  |  |  |            |                   |
| <b>Relative:</b> | <b>LONG BEACH UST:</b>          |              |  |  |  |  |  |  |            |                   |
| <b>Higher</b>    | Region:                         | LONG BEACH   |  |  |  |  |  |  |            |                   |
|                  | Tank Code:                      | Not reported |  |  |  |  |  |  |            |                   |
| <b>Actual:</b>   | Tank Test:                      | Not reported |  |  |  |  |  |  |            |                   |
| <b>9 ft.</b>     | Leak Test:                      | Not reported |  |  |  |  |  |  |            |                   |

|                  |                                 |              |  |  |  |  |  |  |            |                   |
|------------------|---------------------------------|--------------|--|--|--|--|--|--|------------|-------------------|
| <b>B3</b>        |                                 |              |  |  |  |  |  |  | <b>UST</b> | <b>U003920157</b> |
| <b>NE</b>        | <b>4130 W OCEAN BLVD</b>        |              |  |  |  |  |  |  |            | <b>N/A</b>        |
| <b>&lt; 1/8</b>  | <b>LONG BEACH, CA</b>           |              |  |  |  |  |  |  |            |                   |
| <b>0.055 mi.</b> |                                 |              |  |  |  |  |  |  |            |                   |
| <b>288 ft.</b>   | <b>Site 2 of 4 in cluster B</b> |              |  |  |  |  |  |  |            |                   |
| <b>Relative:</b> | <b>LONG BEACH UST:</b>          |              |  |  |  |  |  |  |            |                   |
| <b>Higher</b>    | Region:                         | LONG BEACH   |  |  |  |  |  |  |            |                   |
|                  | Tank Code:                      | Not reported |  |  |  |  |  |  |            |                   |
| <b>Actual:</b>   | Tank Test:                      | Not reported |  |  |  |  |  |  |            |                   |
| <b>9 ft.</b>     | Leak Test:                      | Not reported |  |  |  |  |  |  |            |                   |

|                  |                                 |              |  |  |  |  |  |  |            |                   |
|------------------|---------------------------------|--------------|--|--|--|--|--|--|------------|-------------------|
| <b>A4</b>        |                                 |              |  |  |  |  |  |  | <b>UST</b> | <b>U003920155</b> |
| <b>North</b>     | <b>4000 E OCEAN BLVD</b>        |              |  |  |  |  |  |  |            | <b>N/A</b>        |
| <b>&lt; 1/8</b>  | <b>LONG BEACH, CA</b>           |              |  |  |  |  |  |  |            |                   |
| <b>0.060 mi.</b> |                                 |              |  |  |  |  |  |  |            |                   |
| <b>315 ft.</b>   | <b>Site 2 of 3 in cluster A</b> |              |  |  |  |  |  |  |            |                   |
| <b>Relative:</b> | <b>LONG BEACH UST:</b>          |              |  |  |  |  |  |  |            |                   |
| <b>Higher</b>    | Region:                         | LONG BEACH   |  |  |  |  |  |  |            |                   |
|                  | Tank Code:                      | Not reported |  |  |  |  |  |  |            |                   |
| <b>Actual:</b>   | Tank Test:                      | Not reported |  |  |  |  |  |  |            |                   |
| <b>16 ft.</b>    | Leak Test:                      | Not reported |  |  |  |  |  |  |            |                   |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A5** **TICHY PROPERTY (FORMER GAS SS)**  
**North** **4000 OCEAN BLVD E**  
**< 1/8** **LONG BEACH, CA 90803**  
**0.061 mi.**  
**323 ft.** **Site 3 of 3 in cluster A**

**LUST** **S103891079**  
**N/A**

**Relative:**  
**Higher**

LUST:

**Actual:**  
**16 ft.**

Region: STATE  
Global Id: T0603701734  
Latitude: 33.7596346  
Longitude: -118.1459806  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 08/26/2002  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: JLC  
Local Agency: LONG BEACH, CITY OF  
RB Case Number: 908030198  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0603701734  
Contact Type: Local Agency Caseworker  
Contact Name: CARMEN PIRO  
Organization Name: LONG BEACH, CITY OF  
Address: 2525 GRAND AVE.  
City: LONG BEACH  
Email: carmen\_piro@longbeach.gov  
Phone Number: 5625704137

Regulatory Activities:

Global Id: T0603701734  
Action Type: ENFORCEMENT  
Date: 05/24/1999  
Action: Staff Letter

Global Id: T0603701734  
Action Type: ENFORCEMENT  
Date: 06/14/2002  
Action: Staff Letter

Global Id: T0603701734  
Action Type: ENFORCEMENT  
Date: 08/26/2002  
Action: Closure/No Further Action Letter

Global Id: T0603701734  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Discovery

Global Id: T0603701734  
Action Type: RESPONSE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TICHY PROPERTY (FORMER GAS SS) (Continued)**

**S103891079**

Date: 04/30/2002  
Action: Monitoring Report - Quarterly

Global Id: T0603701734  
Action Type: RESPONSE  
Date: 07/31/2002  
Action: Other Report / Document

Global Id: T0603701734  
Action Type: ENFORCEMENT  
Date: 02/16/2001  
Action: Site Visit / Inspection / Sampling

Global Id: T0603701734  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T0603701734  
Action Type: RESPONSE  
Date: 10/15/2002  
Action: Unknown

Global Id: T0603701734  
Action Type: ENFORCEMENT  
Date: 11/06/2002  
Action: Site Visit / Inspection / Sampling

Global Id: T0603701734  
Action Type: ENFORCEMENT  
Date: 01/09/2001  
Action: \* Historical Enforcement

**LUST REG 4:**

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: 908030198  
Status: Case Closed  
Substance: Gasoline  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Groundwater  
Abatement Method Used at the Site: OT  
Global ID: T0603701734  
W Global ID: Not reported  
Staff: JLC  
Local Agency: 19060  
Cross Street: TERMINO ST  
Enforcement Type: SI  
Date Leak Discovered: 9/11/1998  
Date Leak First Reported: 9/11/1998  
Date Leak Record Entered: Not reported  
Date Confirmation Began: 9/11/1998  
Date Leak Stopped: Not reported  
Date Case Last Changed on Database: 4/15/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TICHY PROPERTY (FORMER GAS SS) (Continued)**

**S103891079**

Date the Case was Closed: 8/26/2002  
How Leak Discovered: OM  
How Leak Stopped: Not reported  
Cause of Leak: UNK  
Leak Source: UNK  
Operator: Not reported  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 14198.615954781842743800531116  
Source of Cleanup Funding: UNK  
Preliminary Site Assessment Workplan Submitted: 4/14/1999  
Preliminary Site Assessment Began: 4/14/1999  
Pollution Characterization Began: 5/14/1999  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: 9/11/1998  
Enforcement Action Date: 1/9/2001  
Historical Max MTBE Date: 5/15/2001  
Hist Max MTBE Conc in Groundwater: 7  
Hist Max MTBE Conc in Soil: .02  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: <  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: STAN HODGE  
RP Address: 16835 AGLONQUIN ST., #624  
Program: LUST  
Lat/Long: 33.7596346 / -1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: LOP/MODERATE - POTENTIAL WATER IMPACT  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: TANKS WERE REMOVED IN 1976. 7/12/99 WP -INITIAL SUBSURFACE SOIL & GW INVESTIGATION; 12/8/00 RPT OF GW WELL INSTALLATION & SAMPLING

**B6**  
**NE** 4217 E. OCEAN  
**< 1/8** LONG BEACH, CA 90803  
**0.068 mi.**  
**358 ft.** Site 3 of 4 in cluster B

**ERNS 91224462**  
**N/A**

**Relative:**  
**Higher**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

**Actual:**  
**10 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B7**  
**ENE**  
**< 1/8**  
**0.077 mi.**  
**408 ft.**  
**OLYMPIC PLAZA**  
**4320 OLYMPIC PLAZA E**  
**LONG BEACH, CA 90803**  
**Site 4 of 4 in cluster B**

**LUST** **S102434684**  
**N/A**

**Relative:**  
**Higher**

LUST:

**Actual:**  
**9 ft.**

Region: STATE  
Global Id: T0603701733  
Latitude: 33.7587077  
Longitude: -118.1450026  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 09/21/1995  
Lead Agency: LONG BEACH, CITY OF  
Case Worker: CP  
Local Agency: LONG BEACH, CITY OF  
RB Case Number: 908030170  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0603701733  
Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

Global Id: T0603701733  
Contact Type: Local Agency Caseworker  
Contact Name: CARMEN PIRO  
Organization Name: LONG BEACH, CITY OF  
Address: 2525 GRAND AVE.  
City: LONG BEACH  
Email: carmen\_piro@longbeach.gov  
Phone Number: 5625704137

Regulatory Activities:

Global Id: T0603701733  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

LUST REG 4:

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: 908030170  
Status: Case Closed  
Substance: Hydrocarbons

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLYMPIC PLAZA (Continued)**

**S102434684**

Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Soil  
Abatement Method Used at the Site: Not reported  
Global ID: T0603701733  
W Global ID: Not reported  
Staff: UNK  
Local Agency: 19060  
Cross Street: BENNETT AVE  
Enforcement Type: Not reported  
Date Leak Discovered: Not reported  
Date Leak First Reported: 9/21/1995  
Date Leak Record Entered: 10/10/1995  
Date Confirmation Began: Not reported  
Date Leak Stopped: Not reported  
Date Case Last Changed on Database: 9/21/1995  
Date the Case was Closed: 9/21/1995  
How Leak Discovered: Not reported  
How Leak Stopped: Not reported  
Cause of Leak: Not reported  
Leak Source: Not reported  
Operator: CITY OF LB  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 14494.675067654031585618119903  
Source of Cleanup Funding: Not reported  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: CITY OF LB  
RP Address: FLEET SERV BUREAU  
Program: LUST  
Lat/Long: 33.7586686 / -1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: OLD CASE #951010-01

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**C8**      **ARCO CORP SITE #01063 (3 D/W JOOR)**  
**North**    **3955 E OCEAN BLVD**  
**< 1/8**     **LONG BEACH, CA**  
**0.081 mi.**  
**428 ft.**    **Site 1 of 12 in cluster C**

**UST**    **U003661100**  
**N/A**

**Relative:**    **LONG BEACH UST:**  
**Higher**        Region:            LONG BEACH  
                     Tank Code:        Dual Walled  
**Actual:**        Tank Test:        Dual Walled  
**21 ft.**            Leak Test:        Not reported

**C9**      **ARCO #1063**  
**North**    **3955 OCEAN BLVD E**  
**< 1/8**     **LONG BEACH, CA 90803**  
**0.081 mi.**  
**428 ft.**    **Site 2 of 12 in cluster C**

**LUST**    **S102424157**  
**N/A**

**Relative:**    **LUST:**  
**Higher**        Region:            STATE  
                     Global Id:         T0603701720  
**Actual:**        Latitude:           33.760177  
**21 ft.**            Longitude:         -118.146262  
                     Case Type:         LUST Cleanup Site  
                     Status:             Completed - Case Closed  
                     Status Date:       03/24/1998  
                     Lead Agency:      LOS ANGELES RWQCB (REGION 4)  
                     Case Worker:      YL  
                     Local Agency:     LONG BEACH, CITY OF  
                     RB Case Number:   908030043  
                     LOC Case Number:   Not reported  
                     File Location:     Not reported  
                     Potential Media Affect:   Aquifer used for drinking water supply  
                     Potential Contaminants of Concern:   Gasoline  
                     Site History:        Not reported

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

**Contact:**  
 Global Id:                    T0603701720  
 Contact Type:                Local Agency Caseworker  
 Contact Name:                CARMEN PIRO  
 Organization Name:         LONG BEACH, CITY OF  
 Address:                      2525 GRAND AVE.  
 City:                          LONG BEACH  
 Email:                         carmen\_piro@longbeach.gov  
 Phone Number:                5625704137

Global Id:                    T0603701720  
 Contact Type:                Regional Board Caseworker  
 Contact Name:                YI LU  
 Organization Name:         LOS ANGELES RWQCB (REGION 4)  
 Address:                      Not reported  
 City:                          R4 UNKNOWN  
 Email:                         ylu@waterboards.ca.gov  
 Phone Number:                Not reported

**Regulatory Activities:**  
 Global Id:                    T0603701720  
 Action Type:                 Other

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #1063 (Continued)**

**S102424157**

Date: 01/01/1950  
Action: Leak Discovery

Global Id: T0603701720  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Region: STATE  
Global Id: T0603790003  
Latitude: 33.760079  
Longitude: -118.146164  
Case Type: LUST Cleanup Site  
Status: Open - Verification Monitoring  
Status Date: 01/20/2009  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: JLC  
Local Agency: LONG BEACH, CITY OF  
RB Case Number: 908030043A  
LOC Case Number: Not reported  
File Location: Regional Board  
Potential Media Affect: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**Contact:**

Global Id: T0603790003  
Contact Type: Regional Board Caseworker  
Contact Name: DAVID M. BJOSTAD  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4th Street, Suite 200  
City: Los Angeles  
Email: dbjostad@waterboards.ca.gov  
Phone Number: Not reported

Global Id: T0603790003  
Contact Type: Local Agency Caseworker  
Contact Name: CARMEN PIRO  
Organization Name: LONG BEACH, CITY OF  
Address: 2525 GRAND AVE.  
City: LONG BEACH  
Email: carmen\_piro@longbeach.gov  
Phone Number: 5625704137

**Regulatory Activities:**

Global Id: T0603790003  
Action Type: ENFORCEMENT  
Date: 01/23/2001  
Action: Staff Letter

Global Id: T0603790003  
Action Type: ENFORCEMENT  
Date: 11/06/2002  
Action: Site Visit / Inspection / Sampling

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #1063 (Continued)**

**S102424157**

|              |                               |
|--------------|-------------------------------|
| Global Id:   | T0603790003                   |
| Action Type: | ENFORCEMENT                   |
| Date:        | 06/14/2002                    |
| Action:      | Staff Letter                  |
| Global Id:   | T0603790003                   |
| Action Type: | RESPONSE                      |
| Date:        | 04/15/2009                    |
| Action:      | Monitoring Report - Quarterly |
| Global Id:   | T0603790003                   |
| Action Type: | ENFORCEMENT                   |
| Date:        | 06/15/2009                    |
| Action:      | Staff Letter                  |
| Global Id:   | T0603790003                   |
| Action Type: | ENFORCEMENT                   |
| Date:        | 02/02/2001                    |
| Action:      | * Historical Enforcement      |
| Global Id:   | T0603790003                   |
| Action Type: | Other                         |
| Date:        | 01/01/1950                    |
| Action:      | Leak Stopped                  |
| Global Id:   | T0603790003                   |
| Action Type: | RESPONSE                      |
| Date:        | 01/15/2004                    |
| Action:      | Monitoring Report - Quarterly |
| Global Id:   | T0603790003                   |
| Action Type: | RESPONSE                      |
| Date:        | 07/15/2004                    |
| Action:      | Monitoring Report - Quarterly |
| Global Id:   | T0603790003                   |
| Action Type: | RESPONSE                      |
| Date:        | 10/15/2005                    |
| Action:      | Monitoring Report - Quarterly |
| Global Id:   | T0603790003                   |
| Action Type: | RESPONSE                      |
| Date:        | 10/15/2007                    |
| Action:      | Monitoring Report - Quarterly |
| Global Id:   | T0603790003                   |
| Action Type: | RESPONSE                      |
| Date:        | 01/15/2008                    |
| Action:      | Monitoring Report - Quarterly |
| Global Id:   | T0603790003                   |
| Action Type: | RESPONSE                      |
| Date:        | 07/15/2002                    |
| Action:      | Monitoring Report - Quarterly |
| Global Id:   | T0603790003                   |
| Action Type: | RESPONSE                      |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #1063 (Continued)**

**S102424157**

Date: 10/15/2002  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 07/31/2002  
Action: Other Report / Document

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 04/15/2002  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 07/15/2010  
Action: Monitoring Report - Semi-Annually

Global Id: T0603790003  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Discovery

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 04/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 04/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 10/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 10/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 01/15/2005  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: ENFORCEMENT  
Date: 02/16/2001  
Action: Site Visit / Inspection / Sampling

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 10/15/2008  
Action: Monitoring Report - Quarterly

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #1063 (Continued)**

**S102424157**

|              |                                   |
|--------------|-----------------------------------|
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 01/15/2010                        |
| Action:      | Monitoring Report - Quarterly     |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 07/15/2007                        |
| Action:      | Monitoring Report - Quarterly     |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 04/15/2006                        |
| Action:      | Monitoring Report - Quarterly     |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 01/15/2006                        |
| Action:      | Monitoring Report - Quarterly     |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 04/04/2011                        |
| Action:      | Request for Closure               |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 04/15/2011                        |
| Action:      | Monitoring Report - Semi-Annually |
| Global Id:   | T0603790003                       |
| Action Type: | Other                             |
| Date:        | 01/01/1950                        |
| Action:      | Leak Reported                     |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 01/15/2003                        |
| Action:      | Monitoring Report - Quarterly     |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 04/15/2005                        |
| Action:      | Monitoring Report - Quarterly     |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 10/15/2011                        |
| Action:      | Monitoring Report - Semi-Annually |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |
| Date:        | 11/02/2011                        |
| Action:      | Other Report / Document           |
| Global Id:   | T0603790003                       |
| Action Type: | RESPONSE                          |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #1063 (Continued)**

**S102424157**

Date: 04/15/2008  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 07/15/2006  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 01/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 10/15/2006  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 07/15/2009  
Action: Monitoring Report - Semi-Annually

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 07/15/2012  
Action: Monitoring Report - Semi-Annually

Global Id: T0603790003  
Action Type: ENFORCEMENT  
Date: 05/17/2011  
Action: Staff Letter

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 07/15/2008  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 01/15/2009  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 04/15/2004  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 07/15/2005  
Action: Monitoring Report - Quarterly

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 07/15/2003  
Action: Monitoring Report - Quarterly

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #1063 (Continued)**

**S102424157**

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 01/15/2013  
Action: Monitoring Report - Semi-Annually

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 01/15/2011  
Action: Monitoring Report - Semi-Annually

Global Id: T0603790003  
Action Type: RESPONSE  
Date: 10/15/2004  
Action: Monitoring Report - Quarterly

**LUST REG 4:**

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: 908030043  
Status: Case Closed  
Substance: Gasoline  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Groundwater  
Abatement Method Used at the Site: Remove Free Product  
Global ID: T0603701720  
W Global ID: Not reported  
Staff: UNK  
Local Agency: 19060  
Cross Street: LIVINGSTON DR  
Enforcement Type: Not reported  
Date Leak Discovered: 11/7/1986  
Date Leak First Reported: 1/20/1987  
Date Leak Record Entered: 8/5/1987  
Date Confirmation Began: Not reported  
Date Leak Stopped: Not reported  
Date Case Last Changed on Database: 4/12/2000  
Date the Case was Closed: 3/24/1998  
How Leak Discovered: Subsurface Monitoring  
How Leak Stopped: Not reported  
Cause of Leak: Corrosion  
Leak Source: Piping  
Operator: TULLY, JOE  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 14083.653609157857514295265862  
Source of Cleanup Funding: Piping  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: 9/29/1987  
Remediation Plan Submitted: 10/27/1995  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: 1/1/1965

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #1063 (Continued)**

**S102424157**

Hist Max MTBE Conc in Groundwater: 580  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Yes  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: ARCO PETROLEUM PRODUCTS CO.  
RP Address: 4 CENTERPOINTE DR., LA PALMA, CA 90623  
Program: LUST  
Lat/Long: 33.7600756 / -1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: INITIAL WORK BY LONG BEACH DEPARTMENT OF PUBLIC HEALTH PRODUCT RECOVERY COMPLETED. 1 MORE ROUND OF GW. MONITORING PRIOR TO REVIEW FOR LOW RISK CASE. 2/9/98 QTRLY GW MON RPT

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: 908030043A  
Status: Pollution Characterization  
Substance: Gasoline  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Groundwater  
Abatement Method Used at the Site: Not reported  
Global ID: T0603790003  
W Global ID: Not reported  
Staff: JLC  
Local Agency: 19060  
Cross Street: LIVINGSTON DR  
Enforcement Type: SI  
Date Leak Discovered: 1/18/2000  
Date Leak First Reported: 4/12/2000  
Date Leak Record Entered: Not reported  
Date Confirmation Began: 1/18/2000  
Date Leak Stopped: 1/18/2000  
Date Case Last Changed on Database: 7/15/2002  
Date the Case was Closed: Not reported  
How Leak Discovered: Not reported  
How Leak Stopped: Not reported  
Cause of Leak: Structure Failure  
Leak Source: Piping  
Operator: Not reported  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 14048.407980304541423814294369  
Source of Cleanup Funding: Piping  
Preliminary Site Assessment Workplan Submitted: 3/28/2000  
Preliminary Site Assessment Began: 8/22/2000  
Pollution Characterization Began: 1/23/2001  
Remediation Plan Submitted: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #1063 (Continued)**

**S102424157**

Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: 4/12/2000  
Enforcement Action Date: 2/2/2001  
Historical Max MTBE Date: 9/12/2001  
Hist Max MTBE Conc in Groundwater: 8500  
Hist Max MTBE Conc in Soil: 46  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: =  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: RAY VOSE  
RP Address: 4 CENTERPOINTE DR.  
Program: LUST  
Lat/Long: 33.760079 / -1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: 10/26/00 SOIL INVESTIGATION REPORT; 1/30/01 GW MON WELL  
RE-DEVELOPMENT; 4/15/01 1ST QTR MON RPT 2001

**C10**  
**North**  
**< 1/8**  
**0.081 mi.**  
**428 ft.**

**ARCO FACILITY #1063**  
**3955 E OCEAN BLVD**  
**LONG BEACH, CA 90803**  
**Site 3 of 12 in cluster C**

**CA FID UST S101582734**  
**SWEEPS UST N/A**

**Relative:**  
**Higher**

CA FID UST:  
Facility ID: 19001228  
Regulated By: UTNKA  
Regulated ID: 00026545  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 3104343352  
Mail To: Not reported  
Mailing Address: 17315 STUDEBAKER RD  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LONG BEACH 90803  
Contact: Not reported  
Contact Phone: Not reported  
DUNS Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**Actual:**  
**21 ft.**

SWEEPS UST:  
Status: Active  
Comp Number: 26545  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 04-01-92  
Action Date: 04-01-92  
Created Date: 02-29-88

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO FACILITY #1063 (Continued)**

**S101582734**

Tank Status: A  
Owner Tank Id: 1  
Swrcb Tank Id: 19-060-026545-000001  
Actv Date: 03-18-92  
Capacity: 6000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: 4

Status: Active  
Comp Number: 26545  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 04-01-92  
Action Date: 04-01-92  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 2  
Swrcb Tank Id: 19-060-026545-000002  
Actv Date: 03-18-92  
Capacity: 6000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 26545  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 04-01-92  
Action Date: 04-01-92  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 3  
Swrcb Tank Id: 19-060-026545-000003  
Actv Date: 03-18-92  
Capacity: 6000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 26545  
Number: 1  
Board Of Equalization: Not reported  
Referral Date: 04-01-92  
Action Date: 04-01-92  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 4  
Swrcb Tank Id: 19-060-026545-000004  
Actv Date: 07-01-85  
Capacity: 6000  
Tank Use: M.V. FUEL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO FACILITY #1063 (Continued)**

**S101582734**

Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

**C11**  
North  
< 1/8  
0.081 mi.  
428 ft.

**3955 E OCEAN BLVD  
LONG BEACH, CA 0  
Site 4 of 12 in cluster C**

**ERNS 2000517196  
N/A**

**Relative:  
Higher**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

**Actual:  
21 ft.  
C12**  
North  
< 1/8  
0.081 mi.  
428 ft.

**SHORELINE ENTERPRISES INC  
3955 E OCEAN BLVD  
LONG BEACH, CA 90803  
Site 5 of 12 in cluster C**

**HIST UST U001565893  
N/A**

**Relative:  
Higher**

HIST UST:  
Region: STATE  
Facility ID: 00000026545  
Facility Type: Gas Station  
Other Type: Not reported  
Total Tanks: 0004  
Contact Name: Not reported  
Telephone: 0000000000  
Owner Name: ARCO PETROLEUM PRODUCTS CO.  
Owner Address: 515 SOUTH FLOWER STREET  
Owner City,St,Zip: LOS ANGELES, CA 90071

**Actual:  
21 ft.**

Tank Num: 001  
Container Num: 0000000001  
Year Installed: 1971  
Tank Capacity: 00006000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: 0000240 inches  
Leak Detection: Stock Inventor, 10

Tank Num: 002  
Container Num: 0000000002  
Year Installed: 1961  
Tank Capacity: 00006000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: 0000240 inches  
Leak Detection: Stock Inventor, 10

Tank Num: 003  
Container Num: 0000000003  
Year Installed: 1961  
Tank Capacity: 00006000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: 0000240 inches  
Leak Detection: Stock Inventor, 10

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHORELINE ENTERPRISES INC (Continued)**

**U001565893**

Tank Num: 004  
Container Num: 0000000004  
Year Installed: 1961  
Tank Capacity: 00006000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: 0000240 inches  
Leak Detection: Stock Inventor, 10

**C13  
North  
< 1/8  
0.116 mi.  
614 ft.**

**UNOCAL #5939  
76 TERMINO AVE  
LONG BEACH, CA 90803  
Site 6 of 12 in cluster C**

**LUST 1000301752  
N/A**

**Relative:  
Higher**

**LUST:**

**Actual:  
24 ft.**

Region: STATE  
Global Id: T0603701622  
Latitude: 33.7603691241221  
Longitude: -118.145534992218  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 11/17/2009  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: NC  
Local Agency: LONG BEACH, CITY OF  
RB Case Number: 907310161A  
LOC Case Number: Not reported  
File Location: Regional Board  
Potential Media Affect: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

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

**Contact:**

Global Id: T0603701622  
Contact Type: Regional Board Caseworker  
Contact Name: DAVID M. BJOSTAD  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4th Street, Suite 200  
City: Los Angeles  
Email: dbjostad@waterboards.ca.gov  
Phone Number: Not reported

Global Id: T0603701622  
Contact Type: Local Agency Caseworker  
Contact Name: CARMEN PIRO  
Organization Name: LONG BEACH, CITY OF  
Address: 2525 GRAND AVE.  
City: LONG BEACH  
Email: carmen\_piro@longbeach.gov  
Phone Number: 5625704137

**Regulatory Activities:**

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5939 (Continued)**

**1000301752**

Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 04/15/2008  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2010  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: ENFORCEMENT  
Date: 06/15/2009  
Action: Staff Letter

Global Id: T0603701622  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Stopped

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/15/2010  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/17/2006  
Action: Soil and Water Investigation Workplan

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2006  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/15/2009  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 04/15/2002  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: ENFORCEMENT  
Date: 01/04/2002  
Action: Staff Letter

Global Id: T0603701622  
Action Type: ENFORCEMENT  
Date: 01/04/2001  
Action: Staff Letter

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5939 (Continued)**

**1000301752**

|              |                                       |
|--------------|---------------------------------------|
| Global Id:   | T0603701622                           |
| Action Type: | Other                                 |
| Date:        | 01/01/1950                            |
| Action:      | Leak Discovery                        |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |
| Date:        | 10/15/2002                            |
| Action:      | Monitoring Report - Quarterly         |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |
| Date:        | 07/15/2002                            |
| Action:      | Monitoring Report - Quarterly         |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |
| Date:        | 08/04/2002                            |
| Action:      | Soil and Water Investigation Report   |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |
| Date:        | 03/04/2002                            |
| Action:      | Soil and Water Investigation Workplan |
| Global Id:   | T0603701622                           |
| Action Type: | ENFORCEMENT                           |
| Date:        | 06/04/2002                            |
| Action:      | Staff Letter                          |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |
| Date:        | 04/15/2007                            |
| Action:      | Monitoring Report - Quarterly         |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |
| Date:        | 01/15/2005                            |
| Action:      | Monitoring Report - Quarterly         |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |
| Date:        | 11/01/2010                            |
| Action:      | Well Installation Report              |
| Global Id:   | T0603701622                           |
| Action Type: | Other                                 |
| Date:        | 01/01/1950                            |
| Action:      | Leak Reported                         |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |
| Date:        | 04/15/2009                            |
| Action:      | Monitoring Report - Quarterly         |
| Global Id:   | T0603701622                           |
| Action Type: | RESPONSE                              |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5939 (Continued)**

**1000301752**

Date: 11/14/2008  
Action: Soil and Water Investigation Report

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/15/2004  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2004  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2011  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2008  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 04/15/2006  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 04/15/2010  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2006  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2009  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 04/15/2011  
Action: Monitoring Report - Semi-Annually

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5939 (Continued)**

**1000301752**

Global Id: T0603701622  
Action Type: ENFORCEMENT  
Date: 06/19/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 08/06/2008  
Action: Pilot Study / Treatability Workplan

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 04/15/2004  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 04/15/2003  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2005  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2006  
Action: Soil and Water Investigation Workplan

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2011  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 12/16/2011  
Action: Well Destruction Workplan

Global Id: T0603701622  
Action Type: RESPONSE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5939 (Continued)**

**1000301752**

Date: 01/15/2012  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 12/16/2011  
Action: Well Installation Workplan

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2012  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/25/2005  
Action: Soil and Water Investigation Report

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2010  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/15/2008  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2004  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 12/14/2012  
Action: Soil and Water Investigation Workplan - Addendum

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2013  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 01/15/2013  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: REMEDIATION  
Date: 01/01/1950  
Action: Excavation

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 04/15/2005  
Action: Monitoring Report - Quarterly

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5939 (Continued)**

**1000301752**

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 11/23/2009  
Action: Soil and Water Investigation Workplan

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 07/15/2009  
Action: Monitoring Report - Semi-Annually

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/15/2005  
Action: Monitoring Report - Quarterly

Global Id: T0603701622  
Action Type: RESPONSE  
Date: 10/15/2003  
Action: Monitoring Report - Quarterly

Region: STATE  
Global Id: T0603701621  
Latitude: 33.7608526  
Longitude: -118.1458787  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 07/19/1996  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: YR  
Local Agency: LONG BEACH, CITY OF  
RB Case Number: 907310161  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**Contact:**

Global Id: T0603701621  
Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

Global Id: T0603701621  
Contact Type: Local Agency Caseworker  
Contact Name: CARMEN PIRO  
Organization Name: LONG BEACH, CITY OF  
Address: 2525 GRAND AVE.  
City: LONG BEACH  
Email: carmen\_piro@longbeach.gov  
Phone Number: 5625704137

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**UNOCAL #5939 (Continued)**

**1000301752**

Regulatory Activities:  
 Global Id: T0603701621  
 Action Type: Other  
 Date: 01/01/1950  
 Action: Leak Reported

**C14**  
**North**  
**< 1/8**  
**0.116 mi.**  
**614 ft.**

**UNOCAL #5939**  
**76 TERMINO AVE**  
**LONG BEACH, CA 90803**  
**Site 7 of 12 in cluster C**

**LUST S101296810**  
**N/A**

**Relative:**  
**Higher**

LUST REG 4:

**Actual:**  
**24 ft.**

|   |                     |                               |
|---|---------------------|-------------------------------|
| Region:   | 4                   |                               |
| Regional Board:                                 | 04                  |                               |
| County:   | Los Angeles         |                               |
| Facility Id:                                    | 907310161           |                               |
| Status:   | Case Closed         |                               |
| Substance:                                      | Hydrocarbons        |                               |
| Substance Quantity:                             | Not reported        |                               |
| Local Case No:                                  | Not reported        |                               |
| Case Type:                                      | Groundwater         |                               |
| Abatement Method Used at the Site:              |                     | Not reported                  |
| Global ID:                                      | T0603701621         |                               |
| W Global ID:                                    | Not reported        |                               |
| Staff:  | UNK                 |                               |
| Local Agency:                                   | 19060               |                               |
| Cross Street:                                   | Not reported        |                               |
| Enforcement Type:                               | Not reported        |                               |
| Date Leak Discovered:                           | Not reported        |                               |
| Date Leak First Reported:                       |                     | 12/19/1990                    |
| Date Leak Record Entered:                       | 12/20/1990          |                               |
| Date Confirmation Began:                        | Not reported        |                               |
| Date Leak Stopped:                              | Not reported        |                               |
| Date Case Last Changed on Database:             |                     | 2/16/1998                     |
| Date the Case was Closed:                       |                     | 7/19/1996                     |
| How Leak Discovered:                            | Not reported        |                               |
| How Leak Stopped:                               | Not reported        |                               |
| Cause of Leak:                                  | Not reported        |                               |
| Leak Source:                                    | Not reported        |                               |
| Operator:                                       | OLD CASE #122090-01 |                               |
| Water System:                                   | Not reported        |                               |
| Well Name:                                      | Not reported        |                               |
| Approx. Dist To Production Well (ft):           |                     | 13780.31393583597587443195864 |
| Source of Cleanup Funding:                      |                     | Not reported                  |
| Preliminary Site Assessment Workplan Submitted: |                     | Not reported                  |
| Preliminary Site Assessment Began:              |                     | Not reported                  |
| Pollution Characterization Began:               |                     | 1/7/1992                      |
| Remediation Plan Submitted:                     |                     | Not reported                  |
| Remedial Action Underway:                       |                     | 7/12/1996                     |
| Post Remedial Action Monitoring Began:          |                     | Not reported                  |
| Enforcement Action Date:                        |                     | Not reported                  |
| Historical Max MTBE Date:                       |                     | Not reported                  |
| Hist Max MTBE Conc in Groundwater:              |                     | Not reported                  |
| Hist Max MTBE Conc in Soil:                     |                     | Not reported                  |
| Significant Interim Remedial Action Taken:      |                     | Not reported                  |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5939 (Continued)**

**S101296810**

GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: UNOCAL #5939  
RP Address: 76 TERMINO AVE, LONG BEACH CA 90803  
Program: LUST  
Lat/Long: 33.7607626 / -1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: Not reported

**C15**  
**North**  
**< 1/8**  
**0.116 mi.**  
**614 ft.**

**SERVICE STATION 5939**  
**76 TERMINO AVE**  
**LONG BEACH, CA 90803**  
**Site 8 of 12 in cluster C**

**HIST UST** **U001565891**  
**N/A**

**Relative:**  
**Higher**

HIST UST:  
Region: STATE  
Facility ID: 00000007693  
Facility Type: Gas Station  
Other Type: Not reported  
Total Tanks: 0003  
Contact Name: FRED KALLIN  
Telephone: 2134346849  
Owner Name: UNION OIL COMPANY OF CALIFORNI  
Owner Address: 3701 WILSHIRE BOULEVARD-SUITE  
Owner City,St,Zip: LOS ANGELES, CA 90010

**Actual:**  
**24 ft.**

Tank Num: 001  
Container Num: 5939-4  
Year Installed: 1967  
Tank Capacity: 00000550  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: Not reported  
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 002  
Container Num: 5939-2  
Year Installed: 1967  
Tank Capacity: 00009940  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Tank Construction: Not reported  
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 003  
Container Num: 5939-1  
Year Installed: 1967  
Tank Capacity: 00009940  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SERVICE STATION 5939 (Continued)**

**U001565891**

Tank Construction: Not reported  
Leak Detection: Stock Inventor, Pressure Test

**C16**  
**North**  
**< 1/8**  
**0.116 mi.**  
**614 ft.**

**SERVICE STATION 5939**  
**76 TERMINO AVE**  
**LONG BEACH, CA 90803**

**CA FID UST S101618010**  
**SWEEPS UST N/A**

**Site 9 of 12 in cluster C**

**Relative:**  
**Higher**

CA FID UST:  
Facility ID: 19002922  
Regulated By: UTNKA  
Regulated ID: 00007693  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2134346849  
Mail To: Not reported  
Mailing Address: 76 TERMINO AVE  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LONG BEACH 90803  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**Actual:**  
**24 ft.**

**SWEEPS UST:**

Status: Active  
Comp Number: 7693  
Number: 9  
Board Of Equalization: 44-013372  
Referral Date: 07-01-85  
Action Date: Not reported  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5939-4  
Swrcb Tank Id: 19-060-007693-000001  
Actv Date: 07-01-85  
Capacity: 550  
Tank Use: OIL  
Stg: W  
Content: WASTE OIL  
Number Of Tanks: 3

Status: Active  
Comp Number: 7693  
Number: 9  
Board Of Equalization: 44-013372  
Referral Date: 07-01-85  
Action Date: Not reported  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5939-2  
Swrcb Tank Id: 19-060-007693-000002  
Actv Date: 07-01-85

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SERVICE STATION 5939 (Continued)**

**S101618010**

Capacity: 9940  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported  
  
Status: Active  
Comp Number: 7693  
Number: 9  
Board Of Equalization: 44-013372  
Referral Date: 07-01-85  
Action Date: Not reported  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5939-1  
Swrcb Tank Id: 19-060-007693-000003  
Actv Date: 07-01-85  
Capacity: 9940  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

**C17**  
**North**  
**< 1/8**  
**0.116 mi.**  
**614 ft.**

**UNION OIL SERVICE STATION LEAS**  
**76 TERMINO AVE**  
**LONG BEACH, CA 90803**  
**Site 10 of 12 in cluster C**

**HIST UST 1000166751**  
**N/A**

**Relative:**  
**Higher**  
  
**Actual:**  
**24 ft.**

HIST UST:  
Region: STATE  
Facility ID: 00000055366  
Facility Type: Gas Station  
Other Type: Not reported  
Total Tanks: 0001  
Contact Name: FRED KALLIN  
Telephone: 2134346849  
Owner Name: UNION OIL COMPANY OF CALIFORNI  
Owner Address: 3701 WILSHIRE BOULEVARD-SUITE  
Owner City,St,Zip: LOS ANGELES, CA 90010  
  
Tank Num: 001  
Container Num: 5939-00  
Year Installed: Not reported  
Tank Capacity: 00000300  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: Not reported  
Leak Detection: None

MAP FINDINGS

|           |      |             |               |
|-----------|------|-------------|---------------|
| Map ID    |      |             | EDR ID Number |
| Direction |      |             | EPA ID Number |
| Distance  |      |             |               |
| Elevation | Site | Database(s) |               |

|                  |   |            |                   |
|------------------|---|------------|-------------------|
| <b>C18</b>       | <b>BELMONT 76 (UNOCAL #5939) (3 D/W JOOR)</b> | <b>UST</b> | <b>U003854911</b> |
| <b>North</b>     | <b>0076 TERMINO AVE</b>                       |            | <b>N/A</b>        |
| <b>&lt; 1/8</b>  | <b>LONG BEACH, CA</b>                         |            |                   |
| <b>0.116 mi.</b> |   |            |                   |
| <b>614 ft.</b>   | <b>Site 11 of 12 in cluster C</b>             |            |                   |
| <b>Relative:</b> | <b>LONG BEACH UST:</b>                        |            |                   |
| <b>Higher</b>    | Region: LONG BEACH                            |            |                   |
|                  | Tank Code: Dual Walled                        |            |                   |
| <b>Actual:</b>   | Tank Test: Dual Walled                        |            |                   |
| <b>24 ft.</b>    | Leak Test: Not reported                       |            |                   |

|                  |  |             |                   |
|------------------|--|-------------|-------------------|
| <b>C19</b>       | <b>TOSCO - 76 STATION #5939</b>                                      | <b>LUST</b> | <b>S104406330</b> |
| <b>North</b>     | <b>76 TERMINO AVE</b>  |             | <b>N/A</b>        |
| <b>&lt; 1/8</b>  | <b>LONG BEACH, CA 90803</b>  |             |                   |
| <b>0.116 mi.</b> |  |             |                   |
| <b>614 ft.</b>   | <b>Site 12 of 12 in cluster C</b>                                    |             |                   |
| <b>Relative:</b> | <b>LUST REG 4:</b>   |             |                   |
| <b>Higher</b>    | Region: 4  |             |                   |
|                  | Regional Board: 04   |             |                   |
| <b>Actual:</b>   | County: Los Angeles  |             |                   |
| <b>24 ft.</b>    | Facility Id: 907310161A  |             |                   |
|                  | Status: Pollution Characterization                                   |             |                   |
|                  | Substance: Gasoline  |             |                   |
|                  | Substance Quantity: Not reported                                     |             |                   |
|                  | Local Case No: Not reported  |             |                   |
|                  | Case Type: Groundwater   |             |                   |
|                  | Abatement Method Used at the Site: Excavate and Dispose              |             |                   |
|                  | Global ID: T0603701622   |             |                   |
|                  | W Global ID: Not reported  |             |                   |
|                  | Staff: NC  |             |                   |
|                  | Local Agency: 19060  |             |                   |
|                  | Cross Street: LIVINGSTON DR  |             |                   |
|                  | Enforcement Type: LET  |             |                   |
|                  | Date Leak Discovered: 11/4/1999                                      |             |                   |
|                  | Date Leak First Reported: 1/13/2000                                  |             |                   |
|                  | Date Leak Record Entered: Not reported                               |             |                   |
|                  | Date Confirmation Began: Not reported                                |             |                   |
|                  | Date Leak Stopped: 11/4/1999   |             |                   |
|                  | Date Case Last Changed on Database: 8/2/2002                         |             |                   |
|                  | Date the Case was Closed: Not reported                               |             |                   |
|                  | How Leak Discovered: OM  |             |                   |
|                  | How Leak Stopped: Not reported                                       |             |                   |
|                  | Cause of Leak: UNK   |             |                   |
|                  | Leak Source: UNK   |             |                   |
|                  | Operator: TOSCO MARKETING  |             |                   |
|                  | Water System: Not reported   |             |                   |
|                  | Well Name: Not reported  |             |                   |
|                  | Approx. Dist To Production Well (ft): 13684.092025801970277994723645 |             |                   |
|                  | Source of Cleanup Funding: UNK                                       |             |                   |
|                  | Preliminary Site Assessment Workplan Submitted: 6/19/2000            |             |                   |
|                  | Preliminary Site Assessment Began: 12/22/2000                        |             |                   |
|                  | Pollution Characterization Began: 3/6/2002                           |             |                   |
|                  | Remediation Plan Submitted: Not reported                             |             |                   |
|                  | Remedial Action Underway: Not reported                               |             |                   |
|                  | Post Remedial Action Monitoring Began: Not reported                  |             |                   |
|                  | Enforcement Action Date: Not reported                                |             |                   |
|                  | Historical Max MTBE Date: 8/21/2000                                  |             |                   |
|                  | Hist Max MTBE Conc in Groundwater: 9600                              |             |                   |

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**TOSCO - 76 STATION #5939 (Continued)**

**S104406330**

Hist Max MTBE Conc in Soil: 81  
 Significant Interim Remedial Action Taken: Yes  
 GW Qualifier: Not reported  
 Soil Qualifier: Not reported  
 Organization: Not reported  
 Owner Contact: Not reported  
 Responsible Party: K. DEAN MITCHELL  
 RP Address: 5882 BOLSA AVE., SUITE #200  
 Program: LUST  
 Lat/Long: 33.7610546 / -1  
 Local Agency Staff: Not reported  
 Beneficial Use: Not reported  
 Priority: Not reported  
 Cleanup Fund Id: Not reported  
 Suspended: Not reported  
 Assigned Name: Not reported  
 Summary: 12/13/00 GW INVESTIGATION RPT

**D20  
 NNW  
 1/8-1/4  
 0.127 mi.  
 669 ft.**

**3900 EAST OCEAN BLVD  
 LONG BEACH, CA**

**CHMIRS S110979449  
 N/A**

**Site 1 of 10 in cluster D**

**Relative:  
 Higher**

CHMIRS:

**Actual:  
 30 ft.**

OES Incident Number: '10-2896  
 OES notification: 05/09/2010  
 OES Date: Not reported  
 OES Time: Not reported  
 Incident Date: Not reported  
**Date Completed: Not reported**  
 Property Use: Not reported  
 Agency Id Number: Not reported  
 Agency Incident Number: Not reported  
 Time Notified: Not reported  
 Time Completed: Not reported  
 Surrounding Area: Not reported  
 Estimated Temperature: Not reported  
 Property Management: Not reported  
 Special Studies 1: Not reported  
 Special Studies 2: Not reported  
 Special Studies 3: Not reported  
 Special Studies 4: Not reported  
 Special Studies 5: Not reported  
 Special Studies 6: Not reported  
 More Than Two Substances Involved?: Not reported  
 Resp Agncy Personel # Of Decontaminated: Not reported  
 Responding Agency Personel # Of Injuries: Not reported  
 Responding Agency Personel # Of Fatalities: Not reported  
 Others Number Of Decontaminated: Not reported  
 Others Number Of Injuries: Not reported  
 Others Number Of Fatalities: Not reported  
 Vehicle Make/year: Not reported  
 Vehicle License Number: Not reported  
 Vehicle State: Not reported  
 Vehicle Id Number: Not reported  
 CA/DOT/PUC/ICC Number: Not reported  
 Company Name: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**(Continued)**

**S110979449**

Reporting Officer Name/ID: Not reported  
 Report Date: Not reported  
 Comments: Not reported  
 Facility Telephone: Not reported  
 Waterway Involved: No  
 Waterway: Not reported  
 Spill Site: Road  
 Cleanup By: Contractor  
 Containment: Not reported  
 What Happened: Not reported  
 Type: Not reported  
 Measure: Gal(s)  
 Other: Not reported  
 Date/Time: 1600  
 Year: 2010  
 Agency: SoCal Edison  
 Incident Date: 5/9/2010  
 Admin Agency: Long Beach Fire Department  
 Amount: Not reported  
 Contained: Yes  
 Site Type: Not reported  
 E Date: Not reported  
 Substance: Mineral Oil  
 Quantity Released: 100  
 BBLs: Not reported  
 Cups: Not reported  
 CUFT: Not reported  
 Gallons: Not reported  
 Grams: Not reported  
 Pounds: Not reported  
 Liters: Not reported  
 Ounces: Not reported  
 Pints: Not reported  
 Quarts: Not reported  
 Sheen: Not reported  
 Tons: Not reported  
 Unknown: Not reported  
 Evacuations: Not reported  
 Number of Injuries: Not reported  
 Number of Fatalities: Not reported  
 Description: Caller states that mineral oil was released from a pad mounted transformer from car contact. Media affected is the soil and concrete.  
 Not reported

**D21**      **VONS STORE # 280**  
**NNW**      **3900 E OCEAN BLVD**  
**1/8-1/4**      **LONG BEACH, CA**  
**0.127 mi.**  
**669 ft.**      **Site 2 of 10 in cluster D**

**Relative:**  
**Higher**

**Actual:**  
**30 ft.**

**UST**      **U003920397**  
**N/A**

MAP FINDINGS

|           |      |             |               |
|-----------|------|-------------|---------------|
| Map ID    |      |             | EDR ID Number |
| Direction |      |             | EPA ID Number |
| Distance  |      |             |               |
| Elevation | Site | Database(s) |               |

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|  |  |            |                                 |
|--|--|------------|---------------------------------|
| <b>D22</b><br><b>NNW</b><br><b>1/8-1/4</b><br><b>0.127 mi.</b><br><b>669 ft.</b> | <b>VONS STORE # 280</b><br><b>3900 E OCEAN BLVD</b><br><b>LONG BEACH, CA</b><br><br><b>Site 3 of 10 in cluster D</b><br><br><b>Relative:</b> LONG BEACH UST:<br><b>Higher</b> Region:            LONG BEACH<br>Tank Code:        Not reported<br><b>Actual:</b> Tank Test:        Not reported<br><b>30 ft.</b> Leak Test:        Not reported | <b>UST</b> | <b>U003661098</b><br><b>N/A</b> |
|--|--|------------|---------------------------------|

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|   |   |            |                                 |
|---|---|------------|---------------------------------|
| <b>23</b><br><b>North</b><br><b>1/8-1/4</b><br><b>0.132 mi.</b><br><b>697 ft.</b> | <b>4007 LIVINGSTON DR</b><br><b>LONG BEACH, CA</b><br><br><b>LONG BEACH UST:</b><br>Region:            LONG BEACH<br>Tank Code:        Not reported<br>Tank Test:        Not reported<br>Leak Test:        Not reported | <b>UST</b> | <b>U003920039</b><br><b>N/A</b> |
|---|---|------------|---------------------------------|

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|   |   |            |                                 |
|---|---|------------|---------------------------------|
| <b>D24</b><br><b>NW</b><br><b>1/8-1/4</b><br><b>0.144 mi.</b><br><b>758 ft.</b> | <b>3870 W OCEAN BLVD</b><br><b>LONG BEACH, CA</b><br><br><b>Site 4 of 10 in cluster D</b><br><br><b>Relative:</b> LONG BEACH UST:<br><b>Higher</b> Region:            LONG BEACH<br>Tank Code:        Not reported<br><b>Actual:</b> Tank Test:        Not reported<br><b>32 ft.</b> Leak Test:        Not reported | <b>UST</b> | <b>U003920154</b><br><b>N/A</b> |
|---|---|------------|---------------------------------|

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|   |   |            |                                 |
|---|---|------------|---------------------------------|
| <b>D25</b><br><b>NW</b><br><b>1/8-1/4</b><br><b>0.144 mi.</b><br><b>760 ft.</b> | <b>3870 E OCEAN BLVD</b><br><b>LONG BEACH, CA</b><br><br><b>Site 5 of 10 in cluster D</b><br><br><b>Relative:</b> LONG BEACH UST:<br><b>Higher</b> Region:            LONG BEACH<br>Tank Code:        Not reported<br><b>Actual:</b> Tank Test:        Not reported<br><b>32 ft.</b> Leak Test:        Not reported | <b>UST</b> | <b>U003920153</b><br><b>N/A</b> |
|---|---|------------|---------------------------------|

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

D26  
NW  
1/8-1/4  
0.144 mi.  
760 ft.

1 HR MOTO PHOTO  
3870 E OCEAN BLVD  
LONG BEACH, CA 90803  
Site 6 of 10 in cluster D

RCRA-SQG 1000351556  
CAD982015307

Relative:  
Higher

RCRA-SQG:

Date form received by agency: 07/20/1987

Facility name: 1 HR MOTO PHOTO

Facility address: 3870 E OCEAN BLVD  
LONG BEACH, CA 90803

EPA ID: CAD982015307

Contact: ENVIRONMENTAL MANAGER

Contact address: 3870 E OCEAN BLVD  
LONG BEACH, CA 90803

Contact country: US

Contact telephone: (213) 434-0943

Contact email: Not reported

EPA Region: 09

Classification: Small Small Quantity Generator

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

Owner/Operator Summary:

Owner/operator name: LIM DANIEL

Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported

Owner/operator telephone: (415) 555-1212

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED

Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported

Owner/operator telephone: (415) 555-1212

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**1 HR MOTO PHOTO (Continued)**

1000351556

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

Violation Status: No violations found

D27  
 NNW  
 1/8-1/4  
 0.165 mi.  
 873 ft.

**20 NORTH GRAND AVE  
 LONG BEACH, CA**  
 Site 7 of 10 in cluster D

ERNS 2010928455  
 N/A

Relative:  
 Higher

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:  
 36 ft.  
 D28  
 NNW  
 1/8-1/4  
 0.165 mi.  
 873 ft.

**20 GRAND AVE  
 LONG BEACH, CA**  
 Site 8 of 10 in cluster D

ERNS 2008880003  
 N/A

Relative:  
 Higher

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:  
 36 ft.  
 D29  
 NNW  
 1/8-1/4  
 0.165 mi.  
 873 ft.

**20 GRAND AVENUE, SITE: NOT STATED  
 LONG BEACH, CA**  
 Site 9 of 10 in cluster D

CHMIRS S110418681  
 N/A

Relative:  
 Higher

CHMIRS:

OES Incident Number: '08-5761  
 OES notification: 08/08/2008  
 OES Date: Not reported  
 OES Time: Not reported  
 Incident Date: Not reported  
**Date Completed: Not reported**  
 Property Use: Not reported  
 Agency Id Number: Not reported  
 Agency Incident Number: Not reported  
 Time Notified: Not reported  
 Time Completed: Not reported  
 Surrounding Area: Not reported  
 Estimated Temperature: Not reported  
 Property Management: Not reported  
 Special Studies 1: Not reported  
 Special Studies 2: Not reported  
 Special Studies 3: Not reported  
 Special Studies 4: Not reported  
 Special Studies 5: Not reported  
 Special Studies 6: Not reported  
 More Than Two Substances Involved?: Not reported  
 Resp Agency Personel # Of Decontaminated: Not reported  
 Responding Agency Personel # Of Injuries: Not reported  
 Responding Agency Personel # Of Fatalities: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S110418681

|                                  |   |
|----------------------------------|---|
| Others Number Of Decontaminated: | Not reported  |
| Others Number Of Injuries:       | Not reported  |
| Others Number Of Fatalities:     | Not reported  |
| Vehicle Make/year:               | Not reported  |
| Vehicle License Number:          | Not reported  |
| Vehicle State:                   | Not reported  |
| Vehicle Id Number:               | Not reported  |
| CA/DOT/PUC/ICC Number:           | Not reported  |
| Company Name:                    | Not reported  |
| Reporting Officer Name/ID:       | Not reported  |
| Report Date:                     | Not reported  |
| Comments:                        | Not reported  |
| Facility Telephone:              | Not reported  |
| Waterway Involved:               | Yes   |
| Waterway:                        | Storm Drain, unknown where it runs to   |
| Spill Site:                      | Other   |
| Cleanup By:                      | Unknown   |
| Containment:                     | Not reported  |
| What Happened:                   | Not reported  |
| Type:                            | Not reported  |
| Measure:                         | Gal(s)  |
| Other:                           | Not reported  |
| Date/Time:                       | 1440  |
| Year:                            | 2008  |
| Agency:                          | NRC   |
| Incident Date:                   | 8/8/2008  |
| Admin Agency:                    | Long Beach Fire Department  |
| Amount:                          | Not reported  |
| Contained:                       | Unknown   |
| Site Type:                       | Storm Drain, unknown where it runs to   |
| E Date:                          | Not reported  |
| Substance:                       | Automotive Gasoline (Unleaded)  |
| Quantity Released:               | 2   |
| BBLS:                            | Not reported  |
| Cups:                            | Not reported  |
| CUFT:                            | Not reported  |
| Gallons:                         | Not reported  |
| Grams:                           | Not reported  |
| Pounds:                          | Not reported  |
| Liters:                          | Not reported  |
| Ounces:                          | Not reported  |
| Pints:                           | Not reported  |
| Quarts:                          | Not reported  |
| Sheen:                           | Not reported  |
| Tons:                            | Not reported  |
| Unknown:                         | Not reported  |
| Evacuations:                     | 0   |
| Number of Injuries:              | 0   |
| Number of Fatalities:            | 0   |
| Description:                     | Per NRC Report, "caller is reporting that 2 gallons of gasoline released from a gas tank due to the operator of a motorcycle taking the tank and dumping it down the storm drain. Caller stated that the suspect then jumped in the car and left." Remedial Actions: "Health Dept. on scene." |

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**D30**  
**NNW**      **20 NORTH GRAND AVE**  
**1/8-1/4**    **LONG BEACH, CA 90803**  
**0.165 mi.**  
**873 ft.**      **Site 10 of 10 in cluster D**

**CHMIRS**    **S110977350**  
**N/A**

**Relative:**  
**Higher**

CHMIRS:

**Actual:**  
**36 ft.**

|   |                            |  |
|---|----------------------------|--|
| OES Incident Number:                        | '10-0248                   |  |
| OES notification:                           | 01/13/2010                 |  |
| OES Date:                                   | Not reported               |  |
| OES Time:                                   | Not reported               |  |
| Incident Date:                              | Not reported               |  |
| <b>Date Completed:</b>                      | <b>Not reported</b>        |  |
| Property Use:                               | Not reported               |  |
| Agency Id Number:                           | Not reported               |  |
| Agency Incident Number:                     | Not reported               |  |
| Time Notified:                              | Not reported               |  |
| Time Completed:                             | Not reported               |  |
| Surrounding Area:                           | Not reported               |  |
| Estimated Temperature:                      | Not reported               |  |
| Property Management:                        | Not reported               |  |
| Special Studies 1:                          | Not reported               |  |
| Special Studies 2:                          | Not reported               |  |
| Special Studies 3:                          | Not reported               |  |
| Special Studies 4:                          | Not reported               |  |
| Special Studies 5:                          | Not reported               |  |
| Special Studies 6:                          | Not reported               |  |
| More Than Two Substances Involved?:         | Not reported               |  |
| Resp Agncy Personel # Of Decontaminated:    | Not reported               |  |
| Responding Agency Personel # Of Injuries:   | Not reported               |  |
| Responding Agency Personel # Of Fatalities: | Not reported               |  |
| Others Number Of Decontaminated:            | Not reported               |  |
| Others Number Of Injuries:                  | Not reported               |  |
| Others Number Of Fatalities:                | Not reported               |  |
| Vehicle Make/year:                          | Not reported               |  |
| Vehicle License Number:                     | Not reported               |  |
| Vehicle State:                              | Not reported               |  |
| Vehicle Id Number:                          | Not reported               |  |
| CA/DOT/PUC/ICC Number:                      | Not reported               |  |
| Company Name:                               | Not reported               |  |
| Reporting Officer Name/ID:                  | Not reported               |  |
| Report Date:                                | Not reported               |  |
| Comments:                                   | Not reported               |  |
| Facility Telephone:                         | Not reported               |  |
| Waterway Involved:                          | Yes                        |  |
| Waterway:                                   | Storm Drain                |  |
| Spill Site:                                 | Residence                  |  |
| Cleanup By:                                 | Unknown                    |  |
| Containment:                                | Not reported               |  |
| What Happened:                              | Not reported               |  |
| Type:                                       | Not reported               |  |
| Measure:                                    | Gal(s)                     |  |
| Other:                                      | Not reported               |  |
| Date/Time:                                  | 715                        |  |
| Year:                                       | 2010                       |  |
| Agency:                                     | NRC                        |  |
| Incident Date:                              | 1/13/2010                  |  |
| Admin Agency:                               | Long Beach Fire Department |  |
| Amount:                                     | Not reported               |  |



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S109038970

|   |                            |
|---|----------------------------|
| Estimated Temperature:                      | Not reported               |
| Property Management:                        | Not reported               |
| Special Studies 1:                          | Not reported               |
| Special Studies 2:                          | Not reported               |
| Special Studies 3:                          | Not reported               |
| Special Studies 4:                          | Not reported               |
| Special Studies 5:                          | Not reported               |
| Special Studies 6:                          | Not reported               |
| More Than Two Substances Involved?:         | Not reported               |
| Resp Agency Personel # Of Decontaminated:   | Not reported               |
| Responding Agency Personel # Of Injuries:   | Not reported               |
| Responding Agency Personel # Of Fatalities: | Not reported               |
| Others Number Of Decontaminated:            | Not reported               |
| Others Number Of Injuries:                  | Not reported               |
| Others Number Of Fatalities:                | Not reported               |
| Vehicle Make/year:                          | Not reported               |
| Vehicle License Number:                     | Not reported               |
| Vehicle State:                              | Not reported               |
| Vehicle Id Number:                          | Not reported               |
| CA/DOT/PUC/ICC Number:                      | Not reported               |
| Company Name:                               | Not reported               |
| Reporting Officer Name/ID:                  | Not reported               |
| Report Date:                                | Not reported               |
| Comments:                                   | Not reported               |
| Facility Telephone:                         | Not reported               |
| Waterway Involved:                          | Not reported               |
| Waterway:                                   | Not reported               |
| Spill Site:                                 | Not reported               |
| Cleanup By:                                 | Contractor                 |
| Containment:                                | Not reported               |
| What Happened:                              | Not reported               |
| Type:                                       | Not reported               |
| Measure:                                    | Not reported               |
| Other:                                      | Not reported               |
| Date/Time:                                  | Not reported               |
| Year:                                       | 2007                       |
| Agency:                                     | Long Beach Water District  |
| Incident Date:                              | 4/26/2007 12:00:00 AM      |
| Admin Agency:                               | Long Beach Fire Department |
| Amount:                                     | Not reported               |
| Contained:                                  | Yes                        |
| Site Type:                                  | Residence                  |
| E Date:                                     | Not reported               |
| Substance:                                  | Sewage Category II         |
| Quantity Released:                          | Not reported               |
| BBLS:                                       | 0                          |
| Cups:                                       | 0                          |
| CUFT:                                       | 0                          |
| Gallons:                                    | 130                        |
| Grams:                                      | 0                          |
| Pounds:                                     | 0                          |
| Liters:                                     | 0                          |
| Ounces:                                     | 0                          |
| Pints:                                      | 0                          |
| Quarts:                                     | 0                          |
| Sheen:                                      | 0                          |
| Tons:                                       | 0                          |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S109038970

Unknown: 0  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
Description: A grease stoppage on a city sewer main caused a back-up which resulted in this release.

E33  
North  
1/8-1/4  
0.246 mi.  
1301 ft.

3915 EAST 2ND ST  
LONG BEACH, CA  
Site 3 of 4 in cluster E

ERNS 2006819427  
N/A

Relative:  
Higher

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:  
49 ft.  
E34

3915 E 2ND ST  
LONG BEACH, CA  
Site 4 of 4 in cluster E

CHMIRS S109038965  
N/A

Relative:  
Higher

CHMIRS:  
OES Incident Number: 06-7052  
OES notification: 11/29/2006  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: Not reported  
**Date Completed: Not reported**  
Property Use: Not reported  
Agency Id Number: Not reported  
Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
Special Studies 1: Not reported  
Special Studies 2: Not reported  
Special Studies 3: Not reported  
Special Studies 4: Not reported  
Special Studies 5: Not reported  
Special Studies 6: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported

Actual:  
49 ft.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**(Continued)**

**S109038965**

|                       |   |
|-----------------------|---|
| Report Date:          | Not reported  |
| Comments:             | Not reported  |
| Facility Telephone:   | Not reported  |
| Waterway Involved:    | Not reported  |
| Waterway:             | unk   |
| Spill Site:           | Not reported  |
| Cleanup By:           | Contractor  |
| Containment:          | Not reported  |
| What Happened:        | Not reported  |
| Type:                 | Not reported  |
| Measure:              | Not reported  |
| Other:                | Not reported  |
| Date/Time:            | Not reported  |
| Year:                 | 2006  |
| Agency:               | Long Beach FD   |
| Incident Date:        | 11/29/2006 12:00:00 AM  |
| Admin Agency:         | Long Beach Fire Department  |
| Amount:               | Not reported  |
| Contained:            | Yes   |
| Site Type:            | Residence   |
| E Date:               | Not reported  |
| Substance:            | sewage  |
| Quantity Released:    | Not reported  |
| BBLs:                 | 0   |
| Cups:                 | 0   |
| CUFT:                 | 0   |
| Gallons:              | unk   |
| Grams:                | 0   |
| Pounds:               | 0   |
| Liters:               | 0   |
| Ounces:               | 0   |
| Pints:                | 0   |
| Quarts:               | 0   |
| Sheen:                | 0   |
| Tons:                 | 0   |
| Unknown:              | 0   |
| Evacuations:          | 0   |
| Number of Injuries:   | 0   |
| Number of Fatalities: | 0   |
| Description:          | Raw sewage came up from a manhole cover and emptied into a storm drain. |

**35**  
**NE**  
**1/8-1/4**  
**0.249 mi.**  
**1314 ft.**

**DIVISION ST AND BENNETT AVE**  
**LONG BEACH, CA**

**CHMIRS S105882810**  
**N/A**

**Relative:**  
**Higher**

CHMIRS:  
 OES Incident Number: 02-0651  
 OES notification: 02/02/2002  
 OES Date: Not reported  
 OES Time: Not reported  
 Incident Date: Not reported  
**Date Completed: Not reported**  
 Property Use: Not reported  
 Agency Id Number: Not reported  
 Agency Incident Number: Not reported

**Actual:**  
**19 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

(Continued)

S105882810

Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
Special Studies 1: Not reported  
Special Studies 2: Not reported  
Special Studies 3: Not reported  
Special Studies 4: Not reported  
Special Studies 5: Not reported  
Special Studies 6: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agncy Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported  
CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Comments: Not reported  
Facility Telephone: Not reported  
Waterway Involved: Yes  
Waterway: Storm Drain  
Spill Site: Not reported  
Cleanup By: Contractor  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 2002  
Agency: Long Beach Fire Dept  
Incident Date: 2/2/200212:00:00 AM  
Admin Agency: Not reported  
Amount: Not reported  
Contained: No  
Site Type: Residence  
E Date: Not reported  
Substance: Sewage  
Quantity Released: Not reported  
BBLs: 0  
Cups: 0  
CUFT: 0  
Gallons: 0.000000  
Grams: 0  
Pounds: 0  
Liters: 0  
Ounces: 0  
Pints: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**(Continued)**

**S105882810**

|                       |  |
|-----------------------|--|
| Quarts:               | 0  |
| Sheen:                | 0  |
| Tons:                 | 0  |
| Unknown:              | 0  |
| Evacuations:          | 0  |
| Number of Injuries:   | 0  |
| Number of Fatalities: | 0  |
| Description:          | Unknown as to what caused release. Water Dept is on scene and accessing situation. NOTE: Storm drain does not lead to a drinking source. |

Count: 8 records.

ORPHAN SUMMARY

| City       | EDR ID     | Site Name                          | Site Address                   | Zip   | Database(s) |
|------------|------------|------------------------------------|--------------------------------|-------|-------------|
| LONG BEACH | 1010562150 | L 1019 LAWP HAYNES FACILITY        | HWY 22 INTERSECTIONOF AND      | 90803 | RCRA-LQG    |
| LONG BEACH | S111075832 | CITY DUMP AND SALVAGE              | LOYNES DR                      |       | SWF/LF      |
| LONG BEACH | S111075872 | CROSBY AND OVERTON                 | 5875 OBISBO AVE                |       | SWF/LF      |
| LONG BEACH | S107863473 | COVERSTREET STOCKPILE              | NW OF COVER ST & END OF INDUS  |       | SWF/LF      |
| LONG BEACH | U003854836 | CITY OF L.B. BEACH MAINT (2 D/W JO | 4320 E OLYMPIC PLZ             | 90803 | UST         |
| LONG BEACH | S109285440 | LONG BEACH CITY MAINT. YARD        | 4320 OLYMPIC BLVD              | 90803 | LUST        |
| LONG BEACH | S102360870 | WEISSKER, HERMAN INC.              | ORANGE ST & SPRING ST LONG BEA |       | SWF/LF      |
| LONG BEACH | S103437887 | CHEVRON-ALAMITOS BAY PARTNERSH     | PACIFIC COAST HWY              | 90803 | LUST        |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

|   |  |
|---|--|
| Date of Government Version: 02/01/2013  | Source: EPA                            |
| Date Data Arrived at EDR: 03/01/2013    | Telephone: N/A                         |
| Date Made Active in Reports: 03/13/2013 | Last EDR Contact: 05/09/2013           |
| Number of Days to Update: 12            | Next Scheduled EDR Contact: 07/22/2013 |
|   | Data Release Frequency: Quarterly      |

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

|   |  |
|---|--|
| Date of Government Version: 02/01/2013  | Source: EPA                            |
| Date Data Arrived at EDR: 03/01/2013    | Telephone: N/A                         |
| Date Made Active in Reports: 03/13/2013 | Last EDR Contact: 05/09/2013           |
| Number of Days to Update: 12            | Next Scheduled EDR Contact: 07/22/2013 |
|   | Data Release Frequency: Quarterly      |

### ***Federal Delisted NPL site list***

#### **DELISTED NPL: National Priority List Deletions**

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2013  
Date Data Arrived at EDR: 03/01/2013  
Date Made Active in Reports: 03/13/2013  
Number of Days to Update: 12

Source: EPA  
Telephone: N/A  
Last EDR Contact: 05/09/2013  
Next Scheduled EDR Contact: 07/22/2013  
Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013  
Date Data Arrived at EDR: 03/01/2013  
Date Made Active in Reports: 03/13/2013  
Number of Days to Update: 12

Source: EPA  
Telephone: 703-412-9810  
Last EDR Contact: 05/29/2013  
Next Scheduled EDR Contact: 09/09/2013  
Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

Date of Government Version: 02/05/2013  
Date Data Arrived at EDR: 03/01/2013  
Date Made Active in Reports: 03/13/2013  
Number of Days to Update: 12

Source: EPA  
Telephone: 703-412-9810  
Last EDR Contact: 05/29/2013  
Next Scheduled EDR Contact: 05/09/2013  
Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013  
Date Data Arrived at EDR: 02/21/2013  
Date Made Active in Reports: 02/27/2013  
Number of Days to Update: 6

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 05/02/2013  
Next Scheduled EDR Contact: 07/15/2013  
Data Release Frequency: Quarterly

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

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 02/12/2013  
Date Data Arrived at EDR: 02/15/2013  
Date Made Active in Reports: 02/27/2013  
Number of Days to Update: 12

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 05/02/2013  
Next Scheduled EDR Contact: 07/15/2013  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

|   |   |
|---|---|
| Date of Government Version: 02/12/2013  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/15/2013    | Telephone: (415) 495-8895               |
| Date Made Active in Reports: 02/27/2013 | Last EDR Contact: 05/02/2013            |
| Number of Days to Update: 12            | Next Scheduled EDR Contact: 07/15/2013  |
|   | Data Release Frequency: Quarterly       |

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

|   |   |
|---|---|
| Date of Government Version: 02/12/2013  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/15/2013    | Telephone: (415) 495-8895               |
| Date Made Active in Reports: 02/27/2013 | Last EDR Contact: 05/02/2013            |
| Number of Days to Update: 12            | Next Scheduled EDR Contact: 07/15/2013  |
|   | Data Release Frequency: Quarterly       |

## ***Federal institutional controls / engineering controls registries***

### **US ENG CONTROLS: Engineering Controls Sites List**

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

|   |   |
|---|---|
| Date of Government Version: 03/14/2013  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/29/2013    | Telephone: 703-603-0695                 |
| Date Made Active in Reports: 05/10/2013 | Last EDR Contact: 03/11/2013            |
| Number of Days to Update: 42            | Next Scheduled EDR Contact: 06/24/2013  |
|   | Data Release Frequency: Varies          |

### **US INST CONTROL: Sites with Institutional Controls**

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

|   |   |
|---|---|
| Date of Government Version: 03/14/2013  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/29/2013    | Telephone: 703-603-0695                 |
| Date Made Active in Reports: 05/10/2013 | Last EDR Contact: 03/11/2013            |
| Number of Days to Update: 42            | Next Scheduled EDR Contact: 06/24/2013  |
|   | Data Release Frequency: Varies          |

## ***Federal ERNS list***

### **ERNS: Emergency Response Notification System**

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 01/17/2013  
Date Made Active in Reports: 02/15/2013  
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 04/02/2013  
Next Scheduled EDR Contact: 07/15/2013  
Data Release Frequency: Annually

## ***State- and tribal - equivalent NPL***

### RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 03/13/2013  
Date Data Arrived at EDR: 03/14/2013  
Date Made Active in Reports: 03/27/2013  
Number of Days to Update: 13

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/07/2013  
Next Scheduled EDR Contact: 08/19/2013  
Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

### ENVIROSTOR: EnviroStor Database

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

Date of Government Version: 03/13/2013  
Date Data Arrived at EDR: 03/14/2013  
Date Made Active in Reports: 03/27/2013  
Number of Days to Update: 13

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/07/2013  
Next Scheduled EDR Contact: 08/19/2013  
Data Release Frequency: Quarterly

## ***State and tribal landfill and/or solid waste disposal site lists***

### SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/18/2013  
Date Data Arrived at EDR: 02/18/2013  
Date Made Active in Reports: 03/20/2013  
Number of Days to Update: 30

Source: Department of Resources Recycling and Recovery  
Telephone: 916-341-6320  
Last EDR Contact: 05/21/2013  
Next Scheduled EDR Contact: 09/02/2013  
Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***

### LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005  
Date Data Arrived at EDR: 02/15/2005  
Date Made Active in Reports: 03/28/2005  
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)  
Telephone: 909-782-4496  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004

Date Data Arrived at EDR: 02/26/2004

Date Made Active in Reports: 03/24/2004

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)

Telephone: 760-776-8943

Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011

Data Release Frequency: No Update Planned

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005

Date Data Arrived at EDR: 06/07/2005

Date Made Active in Reports: 06/29/2005

Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)

Telephone: 760-241-7365

Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011

Data Release Frequency: No Update Planned

## LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003

Date Data Arrived at EDR: 09/10/2003

Date Made Active in Reports: 10/07/2003

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)

Telephone: 530-542-5572

Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011

Data Release Frequency: No Update Planned

## LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008

Date Data Arrived at EDR: 07/22/2008

Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834

Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011

Data Release Frequency: No Update Planned

## LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004

Date Data Arrived at EDR: 09/07/2004

Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6710

Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011

Data Release Frequency: No Update Planned

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003

Date Data Arrived at EDR: 05/19/2003

Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786

Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011

Data Release Frequency: No Update Planned

## LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-622-2433  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001  
Date Data Arrived at EDR: 02/28/2001  
Date Made Active in Reports: 03/29/2001  
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)  
Telephone: 707-570-3769  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 03/18/2013  
Date Data Arrived at EDR: 03/19/2013  
Date Made Active in Reports: 03/27/2013  
Number of Days to Update: 8

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 05/02/2013  
Next Scheduled EDR Contact: 07/01/2013  
Data Release Frequency: Quarterly

## LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001  
Date Data Arrived at EDR: 04/23/2001  
Date Made Active in Reports: 05/21/2001  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-637-5595  
Last EDR Contact: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: No Update Planned

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/05/2013  
Date Data Arrived at EDR: 02/06/2013  
Date Made Active in Reports: 04/12/2013  
Number of Days to Update: 65

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 04/29/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Quarterly

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/28/2012  
Date Data Arrived at EDR: 11/01/2012  
Date Made Active in Reports: 04/12/2013  
Number of Days to Update: 162

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 05/01/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Varies

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/27/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 49

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 04/29/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Quarterly

**INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 11/11/2011  
Number of Days to Update: 59

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 04/29/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Varies

**INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/06/2013  
Date Data Arrived at EDR: 02/08/2013  
Date Made Active in Reports: 04/12/2013  
Number of Days to Update: 63

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 04/29/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Semi-Annually

**INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 02/28/2013  
Date Made Active in Reports: 04/12/2013  
Number of Days to Update: 43

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 04/29/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Varies

**INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013  
Date Data Arrived at EDR: 03/01/2013  
Date Made Active in Reports: 04/12/2013  
Number of Days to Update: 42

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 04/29/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Quarterly

**State and tribal registered storage tank lists**

**UST: Active UST Facilities**

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/18/2013  
Date Data Arrived at EDR: 03/19/2013  
Date Made Active in Reports: 04/18/2013  
Number of Days to Update: 30

Source: SWRCB  
Telephone: 916-341-5851  
Last EDR Contact: 05/02/2013  
Next Scheduled EDR Contact: 07/01/2013  
Data Release Frequency: Semi-Annually

**AST: Aboveground Petroleum Storage Tank Facilities**  
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009  
Date Data Arrived at EDR: 09/10/2009  
Date Made Active in Reports: 10/01/2009  
Number of Days to Update: 21

Source: State Water Resources Control Board  
Telephone: 916-327-5092  
Last EDR Contact: 04/08/2013  
Next Scheduled EDR Contact: 07/22/2013  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 02/05/2013  | Source: EPA Region 10                  |
| Date Data Arrived at EDR: 02/06/2013    | Telephone: 206-553-2857                |
| Date Made Active in Reports: 04/12/2013 | Last EDR Contact: 04/29/2013           |
| Number of Days to Update: 65            | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Quarterly      |

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 02/21/2013  | Source: EPA Region 9                   |
| Date Data Arrived at EDR: 02/26/2013    | Telephone: 415-972-3368                |
| Date Made Active in Reports: 04/12/2013 | Last EDR Contact: 04/29/2013           |
| Number of Days to Update: 45            | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Quarterly      |

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 08/27/2012  | Source: EPA Region 8                   |
| Date Data Arrived at EDR: 08/28/2012    | Telephone: 303-312-6137                |
| Date Made Active in Reports: 10/16/2012 | Last EDR Contact: 04/29/2013           |
| Number of Days to Update: 49            | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Quarterly      |

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 12/31/2012  | Source: EPA Region 7                   |
| Date Data Arrived at EDR: 02/28/2013    | Telephone: 913-551-7003                |
| Date Made Active in Reports: 04/12/2013 | Last EDR Contact: 04/29/2013           |
| Number of Days to Update: 43            | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Varies         |

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

|   |  |
|---|--|
| Date of Government Version: 05/10/2011  | Source: EPA Region 6                   |
| Date Data Arrived at EDR: 05/11/2011    | Telephone: 214-665-7591                |
| Date Made Active in Reports: 06/14/2011 | Last EDR Contact: 04/29/2013           |
| Number of Days to Update: 34            | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Semi-Annually  |

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 08/02/2012  | Source: EPA Region 5                   |
| Date Data Arrived at EDR: 08/03/2012    | Telephone: 312-886-6136                |
| Date Made Active in Reports: 11/05/2012 | Last EDR Contact: 04/29/2013           |
| Number of Days to Update: 94            | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Varies         |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

|   |  |
|---|--|
| Date of Government Version: 02/06/2013  | Source: EPA Region 4                   |
| Date Data Arrived at EDR: 02/08/2013    | Telephone: 404-562-9424                |
| Date Made Active in Reports: 04/12/2013 | Last EDR Contact: 04/29/2013           |
| Number of Days to Update: 63            | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Semi-Annually  |

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 09/28/2012  | Source: EPA, Region 1                  |
| Date Data Arrived at EDR: 11/07/2012    | Telephone: 617-918-1313                |
| Date Made Active in Reports: 04/12/2013 | Last EDR Contact: 04/29/2013           |
| Number of Days to Update: 156           | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Varies         |

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

|   |  |
|---|--|
| Date of Government Version: 01/01/2010  | Source: FEMA                           |
| Date Data Arrived at EDR: 02/16/2010    | Telephone: 202-646-5797                |
| Date Made Active in Reports: 04/12/2010 | Last EDR Contact: 04/18/2013           |
| Number of Days to Update: 55            | Next Scheduled EDR Contact: 07/29/2013 |
|   | Data Release Frequency: Varies         |

## ***State and tribal voluntary cleanup sites***

### VCP: Voluntary Cleanup Program Properties

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

|   |  |
|---|--|
| Date of Government Version: 03/13/2013  | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 03/14/2013    | Telephone: 916-323-3400                        |
| Date Made Active in Reports: 03/27/2013 | Last EDR Contact: 05/07/2013                   |
| Number of Days to Update: 13            | Next Scheduled EDR Contact: 08/19/2013         |
|   | Data Release Frequency: Quarterly              |

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

|   |   |
|---|---|
| Date of Government Version: 12/10/2012  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 12/11/2012    | Telephone: 202-566-2777                 |
| Date Made Active in Reports: 12/20/2012 | Last EDR Contact: 03/26/2013            |
| Number of Days to Update: 9             | Next Scheduled EDR Contact: 07/08/2013  |
|   | Data Release Frequency: Semi-Annually   |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

### **WMUDS/SWAT: Waste Management Unit Database**

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

|   |   |
|---|---|
| Date of Government Version: 04/01/2000  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 04/10/2000    | Telephone: 916-227-4448                     |
| Date Made Active in Reports: 05/10/2000 | Last EDR Contact: 05/10/2013                |
| Number of Days to Update: 30            | Next Scheduled EDR Contact: 08/26/2013      |
|   | Data Release Frequency: No Update Planned   |

### **SWRCY: Recycler Database**

A listing of recycling facilities in California.

|   |  |
|---|--|
| Date of Government Version: 03/18/2013  | Source: Department of Conservation     |
| Date Data Arrived at EDR: 03/19/2013    | Telephone: 916-323-3836                |
| Date Made Active in Reports: 03/27/2013 | Last EDR Contact: 03/19/2013           |
| Number of Days to Update: 8             | Next Scheduled EDR Contact: 07/01/2013 |
|   | Data Release Frequency: Quarterly      |

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

### **HIST CAL-SITES: Calsites Database**

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

|   |   |
|---|---|
| Date of Government Version: 08/08/2005  | Source: Department of Toxic Substance Control |
| Date Data Arrived at EDR: 08/03/2006    | Telephone: 916-323-3400                       |
| Date Made Active in Reports: 08/24/2006 | Last EDR Contact: 02/23/2009                  |
| Number of Days to Update: 21            | Next Scheduled EDR Contact: 05/25/2009        |
|   | Data Release Frequency: No Update Planned     |

### **TOXIC PITS: Toxic Pits Cleanup Act Sites**

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

|   |   |
|---|---|
| Date of Government Version: 07/01/1995  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 08/30/1995    | Telephone: 916-227-4364                     |
| Date Made Active in Reports: 09/26/1995 | Last EDR Contact: 01/26/2009                |
| Number of Days to Update: 27            | Next Scheduled EDR Contact: 04/27/2009      |
|   | Data Release Frequency: No Update Planned   |

## **Local Lists of Registered Storage Tanks**

### **CA FID UST: Facility Inventory Database**

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

|   |  |
|---|--|
| Date of Government Version: 10/31/1994  | Source: California Environmental Protection Agency |
| Date Data Arrived at EDR: 09/05/1995    | Telephone: 916-341-5851                            |
| Date Made Active in Reports: 09/29/1995 | Last EDR Contact: 12/28/1998                       |
| Number of Days to Update: 24            | Next Scheduled EDR Contact: N/A                    |
|   | Data Release Frequency: No Update Planned          |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

|   |  |
|---|--|
| Date of Government Version: 09/23/2009  | Source: Department of Public Health    |
| Date Data Arrived at EDR: 09/23/2009    | Telephone: 707-463-4466                |
| Date Made Active in Reports: 10/01/2009 | Last EDR Contact: 06/03/2013           |
| Number of Days to Update: 8             | Next Scheduled EDR Contact: 09/16/2013 |
|   | Data Release Frequency: Annually       |

## HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

|   |   |
|---|---|
| Date of Government Version: 10/15/1990  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 01/25/1991    | Telephone: 916-341-5851                     |
| Date Made Active in Reports: 02/12/1991 | Last EDR Contact: 07/26/2001                |
| Number of Days to Update: 18            | Next Scheduled EDR Contact: N/A             |
|   | Data Release Frequency: No Update Planned   |

## SWEEPS UST: SWEEPS UST Listing

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

|   |   |
|---|---|
| Date of Government Version: 06/01/1994  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 07/07/2005    | Telephone: N/A                              |
| Date Made Active in Reports: 08/11/2005 | Last EDR Contact: 06/03/2005                |
| Number of Days to Update: 35            | Next Scheduled EDR Contact: N/A             |
|   | Data Release Frequency: No Update Planned   |

## Local Land Records

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

|   |   |
|---|---|
| Date of Government Version: 02/06/2013  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 04/25/2013    | Telephone: 202-564-6023                 |
| Date Made Active in Reports: 05/10/2013 | Last EDR Contact: 04/29/2013            |
| Number of Days to Update: 15            | Next Scheduled EDR Contact: 08/12/2013  |
|   | Data Release Frequency: Varies          |

### LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

|   |  |
|---|--|
| Date of Government Version: 03/15/2013  | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 03/15/2013    | Telephone: 916-323-3400                        |
| Date Made Active in Reports: 03/27/2013 | Last EDR Contact: 03/11/2013                   |
| Number of Days to Update: 12            | Next Scheduled EDR Contact: 06/24/2013         |
|   | Data Release Frequency: Varies                 |

## Records of Emergency Release Reports

### CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

|   |  |
|---|--|
| Date of Government Version: 12/06/2012  | Source: Office of Emergency Services   |
| Date Data Arrived at EDR: 01/29/2013    | Telephone: 916-845-8400                |
| Date Made Active in Reports: 03/19/2013 | Last EDR Contact: 05/01/2013           |
| Number of Days to Update: 49            | Next Scheduled EDR Contact: 08/12/2013 |
|   | Data Release Frequency: Varies         |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Other Ascertainable Records***

### **BRS: Biennial Reporting System**

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

|   |  |
|---|--|
| Date of Government Version: 12/31/2011  | Source: EPA/NTIS                       |
| Date Data Arrived at EDR: 02/26/2013    | Telephone: 800-424-9346                |
| Date Made Active in Reports: 04/19/2013 | Last EDR Contact: 05/30/2013           |
| Number of Days to Update: 52            | Next Scheduled EDR Contact: 09/09/2013 |
|   | Data Release Frequency: Biennially     |

### **CA BOND EXP. PLAN: Bond Expenditure Plan**

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

|   |   |
|---|---|
| Date of Government Version: 01/01/1989  | Source: Department of Health Services     |
| Date Data Arrived at EDR: 07/27/1994    | Telephone: 916-255-2118                   |
| Date Made Active in Reports: 08/02/1994 | Last EDR Contact: 05/31/1994              |
| Number of Days to Update: 6             | Next Scheduled EDR Contact: N/A           |
|   | Data Release Frequency: No Update Planned |

### **NOTIFY 65: Proposition 65 Records**

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

|   |   |
|---|---|
| Date of Government Version: 10/21/1993  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 11/01/1993    | Telephone: 916-445-3846                     |
| Date Made Active in Reports: 11/19/1993 | Last EDR Contact: 03/25/2013                |
| Number of Days to Update: 18            | Next Scheduled EDR Contact: 07/08/2013      |
|   | Data Release Frequency: No Update Planned   |

### **FEDLAND: Federal and Indian Lands**

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

|   |  |
|---|--|
| Date of Government Version: 12/31/2005  | Source: U.S. Geological Survey         |
| Date Data Arrived at EDR: 02/06/2006    | Telephone: 888-275-8747                |
| Date Made Active in Reports: 01/11/2007 | Last EDR Contact: 04/19/2013           |
| Number of Days to Update: 339           | Next Scheduled EDR Contact: 07/29/2013 |
|   | Data Release Frequency: N/A            |

## **COUNTY RECORDS**

### **ALAMEDA COUNTY:**

#### **Underground Tanks**

Underground storage tank sites located in Alameda county.

|   |  |
|---|--|
| Date of Government Version: 04/15/2013  | Source: Alameda County Environmental Health Services |
| Date Data Arrived at EDR: 04/16/2013    | Telephone: 510-567-6700                              |
| Date Made Active in Reports: 05/16/2013 | Last EDR Contact: 04/01/2013                         |
| Number of Days to Update: 30            | Next Scheduled EDR Contact: 07/15/2013               |
|   | Data Release Frequency: Semi-Annually                |

### **KERN COUNTY:**

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010  
Date Data Arrived at EDR: 09/01/2010  
Date Made Active in Reports: 09/30/2010  
Number of Days to Update: 29

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 05/10/2013  
Next Scheduled EDR Contact: 08/26/2013  
Data Release Frequency: Quarterly

## LOS ANGELES COUNTY:

### List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/24/2013  
Date Data Arrived at EDR: 04/24/2013  
Date Made Active in Reports: 05/17/2013  
Number of Days to Update: 23

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 04/24/2013  
Next Scheduled EDR Contact: 08/05/2013  
Data Release Frequency: Varies

### City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009  
Date Data Arrived at EDR: 03/10/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 29

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 05/20/2013  
Next Scheduled EDR Contact: 09/02/2013  
Data Release Frequency: Varies

### City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 04/22/2013  
Date Data Arrived at EDR: 04/29/2013  
Date Made Active in Reports: 05/17/2013  
Number of Days to Update: 18

Source: City of El Segundo Fire Department  
Telephone: 310-524-2236  
Last EDR Contact: 04/19/2013  
Next Scheduled EDR Contact: 08/05/2013  
Data Release Frequency: Semi-Annually

### City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003  
Date Data Arrived at EDR: 10/23/2003  
Date Made Active in Reports: 11/26/2003  
Number of Days to Update: 34

Source: City of Long Beach Fire Department  
Telephone: 562-570-2563  
Last EDR Contact: 04/26/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Annually

### City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/15/2013  
Date Data Arrived at EDR: 04/16/2013  
Date Made Active in Reports: 05/17/2013  
Number of Days to Update: 31

Source: City of Torrance Fire Department  
Telephone: 310-618-2973  
Last EDR Contact: 04/15/2013  
Next Scheduled EDR Contact: 07/29/2013  
Data Release Frequency: Semi-Annually

## MARIN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 11/26/2012  
Date Data Arrived at EDR: 11/28/2012  
Date Made Active in Reports: 01/21/2013  
Number of Days to Update: 54

Source: Public Works Department Waste Management  
Telephone: 415-499-6647  
Last EDR Contact: 04/08/2013  
Next Scheduled EDR Contact: 07/22/2013  
Data Release Frequency: Semi-Annually

## NAPA COUNTY:

### Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011  
Date Data Arrived at EDR: 12/06/2011  
Date Made Active in Reports: 02/07/2012  
Number of Days to Update: 63

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 06/03/2013  
Next Scheduled EDR Contact: 09/16/2013  
Data Release Frequency: No Update Planned

### Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 01/16/2008  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 23

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 06/03/2013  
Next Scheduled EDR Contact: 09/16/2013  
Data Release Frequency: No Update Planned

## ORANGE COUNTY:

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/04/2013  
Date Data Arrived at EDR: 02/19/2013  
Date Made Active in Reports: 03/20/2013  
Number of Days to Update: 29

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 05/10/2013  
Next Scheduled EDR Contact: 08/26/2013  
Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/04/2013  
Date Data Arrived at EDR: 02/18/2013  
Date Made Active in Reports: 03/27/2013  
Number of Days to Update: 37

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 05/10/2013  
Next Scheduled EDR Contact: 08/26/2013  
Data Release Frequency: Quarterly

## RIVERSIDE COUNTY:

### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/23/2013  
Date Data Arrived at EDR: 04/24/2013  
Date Made Active in Reports: 05/17/2013  
Number of Days to Update: 23

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 03/25/2013  
Next Scheduled EDR Contact: 07/08/2013  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 04/23/2013  
Date Data Arrived at EDR: 04/24/2013  
Date Made Active in Reports: 05/16/2013  
Number of Days to Update: 22

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 03/25/2013  
Next Scheduled EDR Contact: 07/08/2013  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/04/2013  
Date Data Arrived at EDR: 04/12/2013  
Date Made Active in Reports: 05/16/2013  
Number of Days to Update: 34

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 04/08/2013  
Next Scheduled EDR Contact: 07/22/2013  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2012  
Date Data Arrived at EDR: 11/06/2012  
Date Made Active in Reports: 11/30/2012  
Number of Days to Update: 24

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 04/26/2013  
Next Scheduled EDR Contact: 08/12/2013  
Data Release Frequency: Varies

## SAN FRANCISCO COUNTY:

### Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 05/10/2013  
Next Scheduled EDR Contact: 08/26/2013  
Data Release Frequency: Quarterly

### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010  
Date Data Arrived at EDR: 03/10/2011  
Date Made Active in Reports: 03/15/2011  
Number of Days to Update: 5

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 05/10/2013  
Next Scheduled EDR Contact: 08/26/2013  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

### San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/25/2013  
Date Data Arrived at EDR: 03/25/2013  
Date Made Active in Reports: 04/18/2013  
Number of Days to Update: 24

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 03/25/2013  
Next Scheduled EDR Contact: 07/08/2013  
Data Release Frequency: Semi-Annually

## SAN MATEO COUNTY:

### Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/18/2013  
Date Data Arrived at EDR: 03/19/2013  
Date Made Active in Reports: 03/27/2013  
Number of Days to Update: 8

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 03/18/2013  
Next Scheduled EDR Contact: 07/01/2013  
Data Release Frequency: Semi-Annually

## SANTA CLARA COUNTY:

### HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005  
Date Data Arrived at EDR: 03/30/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 22

Source: Santa Clara Valley Water District  
Telephone: 408-265-2600  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

### LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/04/2013  
Date Data Arrived at EDR: 03/06/2013  
Date Made Active in Reports: 03/25/2013  
Number of Days to Update: 19

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 06/03/2013  
Next Scheduled EDR Contact: 09/16/2013  
Data Release Frequency: Annually

## SOLANO COUNTY:

### Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/20/2013  
Date Data Arrived at EDR: 03/28/2013  
Date Made Active in Reports: 05/14/2013  
Number of Days to Update: 47

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/18/2013  
Next Scheduled EDR Contact: 07/01/2013  
Data Release Frequency: Quarterly

### Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 03/20/2013  
Date Data Arrived at EDR: 03/28/2013  
Date Made Active in Reports: 05/13/2013  
Number of Days to Update: 46

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/18/2013  
Next Scheduled EDR Contact: 07/01/2013  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

|   |  |
|---|--|
| Date of Government Version: 04/02/2013  | Source: Department of Health Services  |
| Date Data Arrived at EDR: 04/03/2013    | Telephone: 707-565-6565                |
| Date Made Active in Reports: 05/14/2013 | Last EDR Contact: 04/01/2013           |
| Number of Days to Update: 41            | Next Scheduled EDR Contact: 07/15/2013 |
|   | Data Release Frequency: Quarterly      |

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

|   |   |
|---|---|
| Date of Government Version: 03/13/2013  | Source: Sutter County Department of Agriculture |
| Date Data Arrived at EDR: 03/14/2013    | Telephone: 530-822-7500                         |
| Date Made Active in Reports: 03/27/2013 | Last EDR Contact: 03/11/2013                    |
| Number of Days to Update: 13            | Next Scheduled EDR Contact: 06/24/2013          |
|   | Data Release Frequency: Semi-Annually           |

## VENTURA COUNTY:

### Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

|   |  |
|---|--|
| Date of Government Version: 12/01/2011  | Source: Environmental Health Division  |
| Date Data Arrived at EDR: 12/01/2011    | Telephone: 805-654-2813                |
| Date Made Active in Reports: 01/19/2012 | Last EDR Contact: 04/08/2013           |
| Number of Days to Update: 49            | Next Scheduled EDR Contact: 07/22/2013 |
|   | Data Release Frequency: Annually       |

### Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

|   |  |
|---|--|
| Date of Government Version: 05/29/2008  | Source: Environmental Health Division  |
| Date Data Arrived at EDR: 06/24/2008    | Telephone: 805-654-2813                |
| Date Made Active in Reports: 07/31/2008 | Last EDR Contact: 02/18/2013           |
| Number of Days to Update: 37            | Next Scheduled EDR Contact: 06/03/2013 |
|   | Data Release Frequency: Quarterly      |

### Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

|   |  |
|---|--|
| Date of Government Version: 03/01/2013  | Source: Environmental Health Division  |
| Date Data Arrived at EDR: 03/28/2013    | Telephone: 805-654-2813                |
| Date Made Active in Reports: 05/13/2013 | Last EDR Contact: 03/18/2013           |
| Number of Days to Update: 46            | Next Scheduled EDR Contact: 07/01/2013 |
|   | Data Release Frequency: Quarterly      |

## YOLO COUNTY:

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

|   |  |
|---|--|
| Date of Government Version: 03/25/2013  | Source: Yolo County Department of Health |
| Date Data Arrived at EDR: 03/29/2013    | Telephone: 530-666-8646                  |
| Date Made Active in Reports: 05/13/2013 | Last EDR Contact: 03/25/2013             |
| Number of Days to Update: 45            | Next Scheduled EDR Contact: 07/08/2013   |
|   | Data Release Frequency: Annually         |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

|   |   |
|---|---|
| Date of Government Version: 02/18/2013  | Source: Department of Energy & Environmental Protection |
| Date Data Arrived at EDR: 02/18/2013    | Telephone: 860-424-3375                                 |
| Date Made Active in Reports: 03/21/2013 | Last EDR Contact: 05/21/2013                            |
| Number of Days to Update: 31            | Next Scheduled EDR Contact: 09/02/2013                  |
|   | Data Release Frequency: Annually                        |

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

|   |  |
|---|--|
| Date of Government Version: 12/31/2011  | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 07/19/2012    | Telephone: N/A                                 |
| Date Made Active in Reports: 08/28/2012 | Last EDR Contact: 04/19/2013                   |
| Number of Days to Update: 40            | Next Scheduled EDR Contact: 07/29/2013         |
|   | Data Release Frequency: Annually               |

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

|   |  |
|---|--|
| Date of Government Version: 02/01/2013  | Source: Department of Environmental Conservation |
| Date Data Arrived at EDR: 02/07/2013    | Telephone: 518-402-8651                          |
| Date Made Active in Reports: 03/15/2013 | Last EDR Contact: 05/09/2013                     |
| Number of Days to Update: 36            | Next Scheduled EDR Contact: 08/19/2013           |
|   | Data Release Frequency: Annually                 |

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

|   |  |
|---|--|
| Date of Government Version: 12/31/2011  | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 07/23/2012    | Telephone: 717-783-8990                        |
| Date Made Active in Reports: 09/18/2012 | Last EDR Contact: 04/23/2013                   |
| Number of Days to Update: 57            | Next Scheduled EDR Contact: 08/05/2013         |
|   | Data Release Frequency: Annually               |

### RI MANIFEST: Manifest information

Hazardous waste manifest information

|   |  |
|---|--|
| Date of Government Version: 12/31/2011  | Source: Department of Environmental Management |
| Date Data Arrived at EDR: 06/22/2012    | Telephone: 401-222-2797                        |
| Date Made Active in Reports: 07/31/2012 | Last EDR Contact: 05/28/2013                   |
| Number of Days to Update: 39            | Next Scheduled EDR Contact: 09/09/2013         |
|   | Data Release Frequency: Annually               |

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

|   |   |
|---|---|
| Date of Government Version: 12/31/2011  | Source: Department of Natural Resources |
| Date Data Arrived at EDR: 07/19/2012    | Telephone: N/A                          |
| Date Made Active in Reports: 09/27/2012 | Last EDR Contact: 03/18/2013            |
| Number of Days to Update: 70            | Next Scheduled EDR Contact: 07/01/2013  |
|   | Data Release Frequency: Annually        |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

### Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

BELMONT PLAZA POOL  
4000 EAST OLYMPIC PLAZA  
LONG BEACH, CA 90803

### TARGET PROPERTY COORDINATES

|                                |                           |
|--------------------------------|---------------------------|
| Latitude (North):              | 33.7581 - 33° 45' 29.16"  |
| Longitude (West):              | 118.1461 - 118° 8' 45.96" |
| Universal Transverse Mercator: | Zone 11                   |
| UTM X (Meters):                | 393856.0                  |
| UTM Y (Meters):                | 3735731.5                 |
| Elevation:                     | 6 ft. above sea level     |

### USGS TOPOGRAPHIC MAP

|                       |                                   |
|-----------------------|-----------------------------------|
| Target Property Map:  | 33118-G2 LONG BEACH (DIGITAL), CA |
| Most Recent Revision: | 1964                              |
| South Map:            | 33118-F2 LONG BEACH OE S, CA      |
| Most Recent Revision: | 0                                 |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

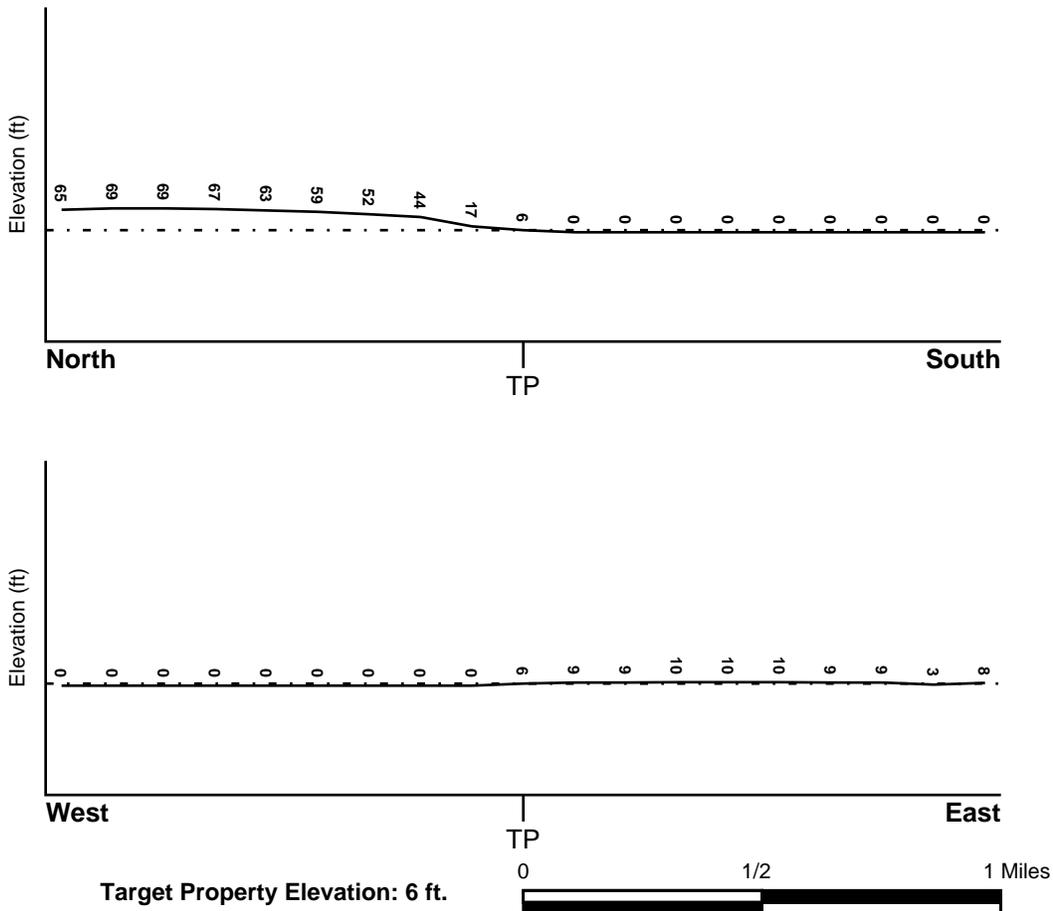
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

|                               |  |
|-------------------------------|--|
| <u>Target Property County</u> | FEMA Flood                                     |
| LOS ANGELES, CA               | <u>Electronic Data</u>                         |
|                               | YES - refer to the Overview Map and Detail Map |

Flood Plain Panel at Target Property: 06037C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

## NATIONAL WETLAND INVENTORY

|                                    |  |
|------------------------------------|--|
| <u>NWI Quad at Target Property</u> | NWI Electronic                                 |
| NORTH LONG BEACH (OE)              | <u>Data Coverage</u>                           |
|                                    | YES - refer to the Overview Map and Detail Map |

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### *Site-Specific Hydrogeological Data\*:*

|                |            |
|----------------|------------|
| Search Radius: | 1.25 miles |
| Status:        | Not found  |

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| <u>MAP ID</u> | <u>LOCATION</u> | <u>GENERAL DIRECTION</u> |
|---------------|-----------------|--------------------------|
|               | <u>FROM TP</u>  | <u>GROUNDWATER FLOW</u>  |
| Not Reported  |                 |                          |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### **ROCK STRATIGRAPHIC UNIT**

Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |          |          |                    |                |              |                           |                        |
|------------------------|----------|----------|--------------------|----------------|--------------|---------------------------|------------------------|
| Layer                  | Boundary |          | Soil Texture Class | Classification |              | Permeability Rate (in/hr) | Soil Reaction (pH)     |
|                        | Upper    | Lower    |                    | AASHTO Group   | Unified Soil |                           |                        |
| 1                      | 0 inches | 6 inches | variable           | Not reported   | Not reported | Max: 0.00<br>Min: 0.00    | Max: 0.00<br>Min: 0.00 |

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam  
 clay  
 silt loam  
 loamy sand  
 sandy loam  
 fine sand  
 clay loam  
 gravelly - sandy loam  
 coarse sand  
 gravelly - sand  
 sand

Surficial Soil Types: loam  
 clay  
 silt loam  
 loamy sand  
 sandy loam  
 fine sand  
 clay loam  
 gravelly - sandy loam  
 coarse sand  
 gravelly - sand  
 sand

Shallow Soil Types: fine sandy loam  
 gravelly - loam  
 sand  
 silty clay

Deeper Soil Types: stratified  
 clay loam  
 silty clay loam  
 gravelly - sandy loam  
 coarse sand  
 sand  
 weathered bedrock  
 very fine sandy loam

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

| <u>DATABASE</u>  | <u>SEARCH DISTANCE (miles)</u> |
|------------------|--------------------------------|
| Federal USGS     | 0.000                          |
| Federal FRDS PWS | Nearest PWS within 1 mile      |
| State Database   | 0.000                          |

## **FEDERAL USGS WELL INFORMATION**

| <u>MAP ID</u>  | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|----------------|----------------|-------------------------|
| No Wells Found |                |                         |

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

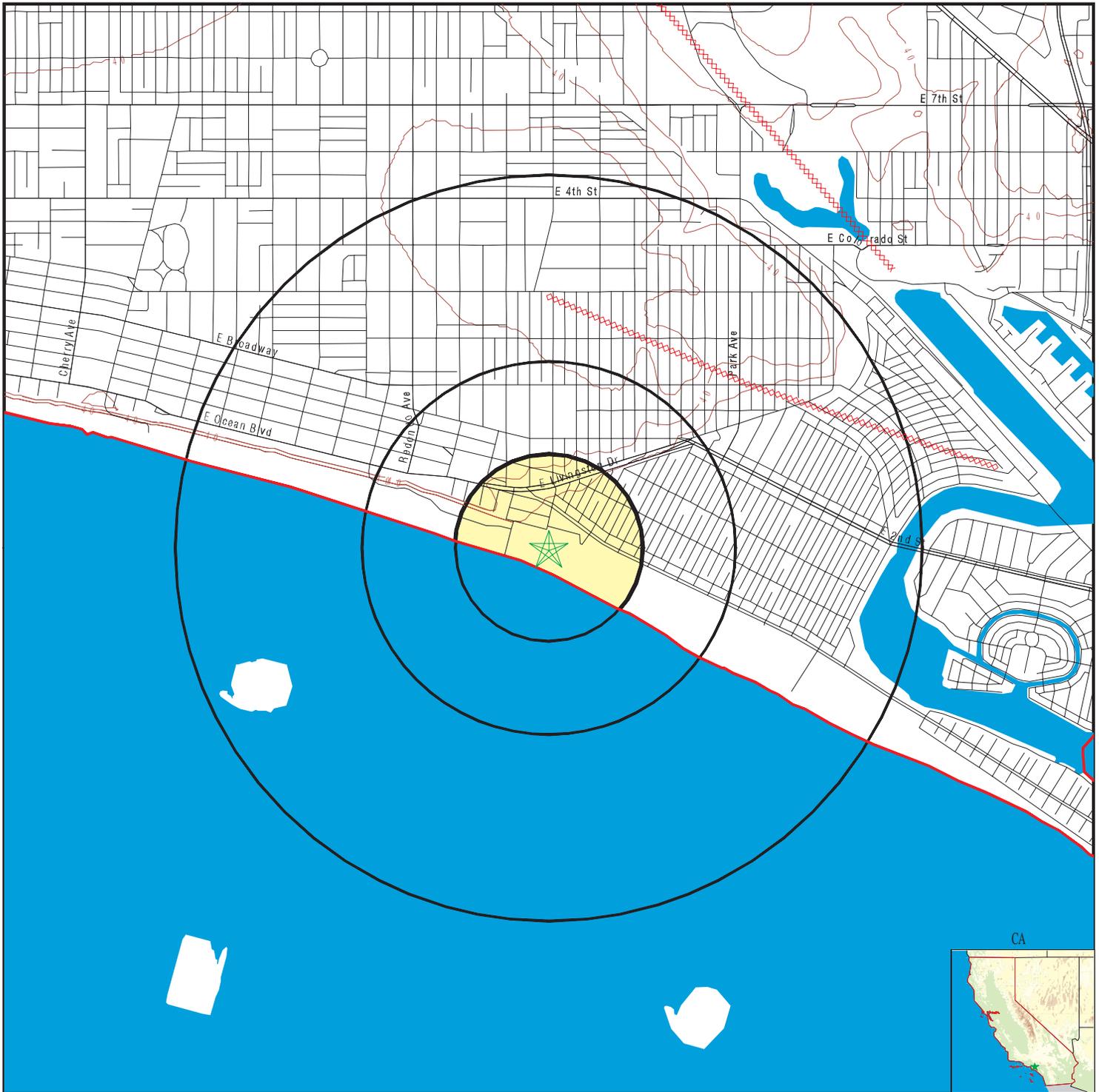
| <u>MAP ID</u>       | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------------|----------------|-------------------------|
| No PWS System Found |                |                         |

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

| <u>MAP ID</u>  | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|----------------|----------------|-------------------------|
| No Wells Found |                |                         |

# PHYSICAL SETTING SOURCE MAP - 3629297.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data



SITE NAME: Belmont Plaza Pool  
 ADDRESS: 4000 East Olympic Plaza  
 Long Beach CA 90803  
 LAT/LONG: 33.7581 / 118.1461

CLIENT: Ninyo & Moore  
 CONTACT: Felipe Vazquez  
 INQUIRY #: 3629297.1s  
 DATE: June 06, 2013 6:29 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---------|-----------|-----------|
| 90803   | 48        | 0         |

Federal EPA Radon Zone for LOS ANGELES County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

### Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

| Area                    | Average Activity | % <4 pCi/L   | % 4-20 pCi/L | % >20 pCi/L  |
|-------------------------|------------------|--------------|--------------|--------------|
| Living Area - 1st Floor | 0.711 pCi/L      | 98%          | 2%           | 0%           |
| Living Area - 2nd Floor | Not Reported     | Not Reported | Not Reported | Not Reported |
| Basement                | 0.933 pCi/L      | 100%         | 0%           | 0%           |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

#### California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

#### California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

### RADON

#### State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

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**APPENDIX C**  
**REGULATORY AGENCY DOCUMENTATION**

475 Goddard, Suite 200, Irvine, California 92618 ♦ Phone 949/753-7070 ♦ Fax 949/753-7071 ♦ www.ninyoandmoore.com

|   |  |  |   |  |
|---|--|--|---|--|
| <b>To:</b> Leti   | <b>Date:</b> May 30, 2013                                  |  |   |  |
| <b>Firm:</b> City of Long Beach Fire Department                           | <b>Fax No:</b> 562-570-2556                                |  |   |  |
| <b>Address:</b>   | <b>Telephone No:</b> 562-570-2563                          |  |   |  |
| <b>From:</b> Felipe Vazquez   | <b>Total Pages Including Transmittal:</b> 1                |  |   |  |
| <b>Subject:</b> Underground Storage Tanks and Hazardous Materials Records | <b>Project No:</b> 208885001                               |  |   |  |
| <input checked="" type="checkbox"/> <b>Urgent</b>                         | <input type="checkbox"/> <b>For Approval</b>               | <input type="checkbox"/> <b>For Your Use</b> | <input checked="" type="checkbox"/> <b>Please Reply</b> | <input type="checkbox"/> <b>As Requested</b> |
| <b>Original Document:</b>   | <input checked="" type="checkbox"/> <b>Will Not Follow</b> | <input type="checkbox"/> <b>Will Follow</b>  | <input type="checkbox"/> <b>By U.S. Mail</b>            | <input type="checkbox"/> <b>By Other</b>     |

ATTN: Leti, Records Request

I would like to review files that your agency may have regarding the following addresses:

- **200 Termino Avenue, Long Beach, CA 90803**
- **4000 East Olympic Plaza, Long Beach, CA 90803**
- **4020 East Olympic Plaza, Long Beach, CA 90803**

Please contact me at 949-753-7070 or fvazquez@ninyoandmoore.com to set up an appointment to review any available files.

Sincerely,



Felipe Vazquez  
Senior Staff Engineer

**FAXED**  
5/30/13

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
- Construction Management
- Engineering Design
- Environmental Engineering
- Environmental Site Assessments
- Regulatory Compliance and Permitting
- Water Quality and Resource Evaluations
- Hazardous Waste Management
- Soil and Groundwater Remediation
- Asbestos and Lead-Based Paint Surveys
- Geophysical Studies
- Mineral Resource Evaluations
- Value Engineering
- Forensic Studies
- Expert Witness Testimony



CITY OF LONG BEACH  
 UNIFIED PROGRAM AGENCY  
 c/o LONG BEACH FIRE DEPARTMENT  
 3205 Lakewood Blvd  
 Long Beach, CA 90808

Phone (562) 570-2581 or (562) 570-2588  
 Fax (562) 570-2566  
 Inspector MORALES  
 Date 4/29/13  
 Routine \_\_\_\_\_ Reinspection \_\_\_\_\_  
 Consult \_\_\_\_\_ Other \_\_\_\_\_  
 HC 4103 FRG 2

Business Name: BELMONT PLAZA POOL Phone: 562/570 3134  
 Address: 4000 OLYMPIC PLZ, LONG BEACH CA 90803

Hazardous Materials Business Emergency Plan  
 WWW.LONGBEACHCUPA.ORG

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapter 6.95; Title 19 of the California Code of Regulations; and the City of Long Beach Municipal Code. Violations determined from this inspection are noted below:

Violation classification: M= minor; II = Class II; I = Class I

- Failure to establish/implement a Business Emergency Plan. [HSC 25503.5]
- Chemical inventory is incomplete or needs to be updated. [HSC 25504]
- Failure to submit a Business Emergency Plan to the Long Beach Fire Dept. [HSC 25505]
- Failure to review and update the Business Emergency Plan. [HSC 25505(c)]
- Emergency Response Plan inadequate and/or does not include adequate notification, mitigation and abatement procedures. [HSC 25504]
- Employee training program is inadequate. [HSC 25504]
- Business Owner/Operator Identification page is incomplete or needs to be updated. [HSC 25509]
- Failure to provide name, title, and 24-hour phone number of emergency contacts(s). [HSC 25509(a)]
- Site Map is incomplete or insufficient. [HSC 25509(a)]
- Failure to report a release or threatened release. [HSC 25507]
- Other ( See comments)
- No violations found at this time. No corrective actions required.
- Facility access for inspection granted [HSC 25508(a)]

Corrections are required and documentation must be returned to this office within 30 days.

All previous violations outstanding. No progress.

If all violations are not corrected and an additional inspection is necessary, a reinspection fee will be charged.

FINAL NOTICE. ALL VIOLATIONS MUST BE CORRECTED IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN A REFERRAL TO THE CITY PROSECUTOR'S OFFICE FOR FURTHER ACTION.

Comments: ① PROVIDE THE LB FIRE DEPT WITH A COPY OF THE HAZ MAT BUSINESS PLAN WITHIN 30 DAYS

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

Facility Signature: Sarah Jane Amick Title: Aquatics Supervisor Date: 4/29/13

Facility Rep. Print Name: Sarah Jane Amick Next Inspection: \_\_\_\_\_



Transmittal

475 Goddard, Suite 200, Irvine, California 92618 Phone 949/753-7070 Fax 949/753-7071 www.ninyoandmoore.com

To: Records Request Date: May 30, 2013

Firm: Los Angeles Department of Public Works Fax No: 626-458-3569

Address: Telephone No: 626-458-3517

From: Felipe Vazquez Total Pages Including Transmittal: 1

Subject: Records Request Project No: 208885001

Urgent  For Approval  For Your Use  Please Reply  As Requested  
 Original Document:  Will Not Follow  Will Follow  By U.S. Mail  By Other

ATTN: Records Request

I would like to review files that your agency may have regarding the following addresses:

- 200 Termino Avenue, Long Beach, CA 90803
- 4000 East Olympic Plaza, Long Beach, CA 90803
- 4020 East Olympic Plaza, Long Beach, CA 90803

*No Files Found*

Please contact me at 949-753-7070 or fvazquez@ninyoandmoore.com to set up an appointment to review any available files.

Sincerely,

*Felipe Vazquez*  
 Felipe Vazquez  
 Senior Staff Engineer

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
- Construction Management
- Engineering Design
- Environmental Engineering
- Environmental Site Assessments
- Regulatory Compliance and Permitting
- Water Quality and Resource Evaluations
- Hazardous Waste Management
- Soil and Groundwater Remediation
- Asbestos and Lead-Based Paint Surveys
- Geophysical Studies
- Mineral Resource Evaluations
- Value Engineering
- Forensic Studies
- Expert Witness Testimony

475 Goddard, Suite 200, Irvine, California 92618 Phone 949/753-7070 Fax 949/753-7071 www.ninyoandmoore.com

**To:** Records **Date:** May 30, 2013

---

**Firm:** City of Long Beach, Health and Human Services **Fax No:** 562-570-4038

---

**Address:** 2525 Grand Avenue, Romm #222 **Telephone No:**  
Long Beach, CA 90815

---

**From:** Felipe Vazquez **Total Pages Including Transmittal:** 1

---

**Subject:** Records Request **Project No:** 208885001

**Urgent**  **For Approval**  **For Your Use**  **Please Reply**  **As Requested**  
**Original Document:**  **Will Not Follow**  **Will Follow**  **By U.S. Mail**  **By Other**

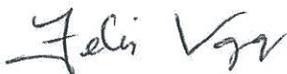
To Whom It May Concern:

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Please contact me at 949-753-7070 or fvazquez@ninyoandmoore.com to set up an appointment to review any available files.

Sincerely,



Felipe Vazquez  
Senior Staff Engineer

FAXED  
5/30/13

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
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- Environmental Site Assessments
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- Geophysical Studies
- Mineral Resource Evaluations
- Value Engineering
- Forensic Studies
- Expert Witness Testimony



# CITY OF LONG BEACH

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
BUREAU OF ENVIRONMENTAL HEALTH



2525 GRAND AVENUE ROOM 220 • LONG BEACH, CALIFORNIA 90815 • (562) 570-4132  
WWW.LONGBEACH.GOV/HEALTH/EH

June 3, 2013

Ninyo & Moore  
Attn: Felipe Vasquez  
475 Goddard, Suite 200  
Irvine, California 92618

**RECEIVED**

**JUN 05 2013**

**NINYO & MOORE  
ORANGE COUNTY OFFICE**

Regarding: 200 Termino Avenue, Long Beach, California  
4000 East Olympic Plaza, Long Beach, California  
4020 East Olympic Plaza, Long Beach, California

Dear Felipe Vasquez:

I am in receipt of your letter regarding the above mentioned addresses.

The purpose of my letter is to inform you that we have no information on file for these sites. You can also contact the Fire Prevention Bureau for file information at 562/570-2560.

If you have any further questions, please feel free to contact Dee Brown at 562-570-4131.

Sincerely,

A handwritten signature in black ink, appearing to read "Nelson Kerr".

Nelson Kerr, R.E.H.S., M.P.A.  
Hazardous Waste Operations Officer

nofile

475 Goddard, Suite 200, Irvine, California 92618    Phone 949/753-7070    Fax 949/753-7071    www.ninyoandmoore.com

**To:** Regional Records Coordinator

**Date:** May 30, 2013

**Firm:** California Department of Toxic Substances Control-Chatsworth Office

**Fax No:** 818-717-6526

**Address:**

**Telephone No:** 818-717-6522

**From:** Felipe Vazquez

**Total Pages Including Transmittal:** 1

**Subject:** Records Request

**Project No:** 208885001

**Urgent**                       **For Approval**                       **For Your Use**                       **Please Reply**                       **As Requested**  
**Original Document:**                       **Will Not Follow**                       **Will Follow**                       **By U.S. Mail**                       **By Other**

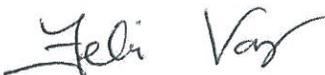
ATTN: Regional Records Coordinator,

I would like to review files that your agency may have regarding the following addresses:

- **200 Termino Avenue, Long Beach, CA 90803**
- **4000 East Olympic Plaza, Long Beach, CA 90803**
- **4020 East Olympic Plaza, Long Beach, CA 90803**

Please contact me at 949-753-7070 or [fvazquez@ninyoandmoore.com](mailto:fvazquez@ninyoandmoore.com) to set up an appointment to review any available files.

Sincerely,



Felipe Vazquez  
Senior Staff Engineer

**FAXED**  
5/30/13

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
- Construction Management
- Engineering Design
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475 Goddard, Suite 200, Irvine, California 92618 Phone 949/753-7070 Fax 949/753-7071 www.ninyoandmoore.com

|   |  |  |   |  |
|---|--|--|---|--|
| <b>To:</b> Regional Records Coordinator                                       | <b>Date:</b> May 30, 2013                                  |  |   |  |
| <b>Firm:</b> California Department of Toxic Substances Control-Cypress Office | <b>Fax No:</b> 714-484-5318                                |  |   |  |
| <b>Address:</b> 5796 Corporate Avenue, Cypress, California 90630              | <b>Telephone No:</b> 714-484-5300                          |  |   |  |
| <b>From:</b> Felipe Vazquez   | <b>Total Pages Including Transmittal:</b> 1                |  |   |  |
| <b>Subject:</b> Records Request   | <b>Project No:</b> 208885001                               |  |   |  |
| <input checked="" type="checkbox"/> <b>Urgent</b>                             | <input type="checkbox"/> <b>For Approval</b>               | <input type="checkbox"/> <b>For Your Use</b> | <input checked="" type="checkbox"/> <b>Please Reply</b> | <input type="checkbox"/> <b>As Requested</b> |
| <b>Original Document:</b>   | <input checked="" type="checkbox"/> <b>Will Not Follow</b> | <input type="checkbox"/> <b>Will Follow</b>  | <input type="checkbox"/> <b>By U.S. Mail</b>            | <input type="checkbox"/> <b>By Other</b>     |

ATTN: Regional Records Coordinator,

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- 200 Termino Avenue, Long Beach, CA 90803
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- 4020 East Olympic Plaza, Long Beach, CA 90803

Please contact me at 949-753-7070 or fvazquez@ninyoandmoore.com to set up an appointment to review any available files.

Sincerely,

Felipe Vazquez  
Senior Staff Engineer

## DTSC

MAY 30 2013

## CYPRESS

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
- Construction Management
- Engineering Design
- Environmental Engineering
- Environmental Site Assessments
- Regulatory Compliance and Permitting
- Water Quality and Resource Evaluations
- Hazardous Waste Management
- Soil and Groundwater Remediation
- Asbestos and Lead-Based Paint Surveys
- Geophysical Studies
- Mineral Resource Evaluations
- Value Engineering
- Forensic Studies
- Expert Witness Testimony



Matthew Rodriguez  
Secretary for  
Environmental Protection



## Department of Toxic Substances Control

Deborah O. Raphael, Director  
5796 Corporate Ave  
Cypress, California 90630



Edmund G. Brown Jr.  
Governor

May 30, 2013

**RECEIVED**

MAY 31 2013

NINYO & MOORE  
ORANGE COUNTY OFFICE

Mr. Felipe Vazques  
Ninyo & Moore  
475 Goddard, Suite 200  
Irvine, California 92618

PR40530131

Dear Mr. Vazques:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control. After a thorough review of our files we have found that, **no such records** exist at this office pertaining to the sites/facility referenced.

**SEE ATTACHED:**

If you have any questions, would like further information regarding your request, please contact our Regional Records Coordinator at (714) 484-5336.

We would like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: <http://www.envirostor.dtsc.ca.gov/public>. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view Envirostor.

Sincerely,

*Jone Barrio*

Jone Barrio  
Regional Records Coordinator  
Cypress Administrative Services  
Department of Toxic Substances Control

# **GROUNDWATER SAMPLING MEMORANDUM**

July 28, 2014  
Project No. 209120001

Mr. Diego Matzkin  
Harley Ellis Devereaux  
601 South Figueroa Street, Suite 500  
Los Angeles, California 90017

Subject: Groundwater Sampling  
Belmont Plaza Pool Facility Rebuild/Revitalization Project  
4000 East Olympic Plaza  
Long Beach, California 90803

Dear Mr. Matzkin:

Ninyo & Moore conducted groundwater sampling at the Belmont Plaza Pool Facility (PF) at 4000 East Olympic Plaza, Long Beach, California (Figure 1). Demolition activities are planned for the site structure. The diving (deep) section of the existing swimming pool has cracks resulting in shallow groundwater seeping into the pool after the initial draining. Chemical characterization of the groundwater has been requested to assist the abatement demolition contractor with discharge permitting and dewatering activities.

On July 1, 2014 Ninyo & Moore collected one grab water sample from the standing water within the swimming pool and one grab groundwater sample from the adjacent subsurface. One direct-push boring (BP-2) was advanced by J&H drilling to approximately 15 feet below ground surface (bgs) adjacent and to the north exterior of the PF building. Groundwater was encountered at approximately 9 feet bgs and a water sample was collected via Hydro-Punch™. Approximate sampling and boring locations are shown in Figure 2.

The groundwater samples (BP-1 and BP-2) were tested for the constituents required by the California Regional Water Quality Control Board (RWQCB) for the National Pollutant Discharge Elimination System (NPDES) supplemental requirements with the exception of asbestos and dioxins which are not required for screening (Attachment A). In addition, samples were filtered and analyzed for metals (dissolved metals) by the United States Environmental Protection Agency (EPA) Method 200 Series.

Sample BP-1, collected from the swimming pool, had reported concentrations that exceeded the NPDES screening levels for some metals (cadmium, copper, nickel, lead, antimony, and zinc) and for some dissolved metals (cadmium, copper, nickel, lead, and zinc). Sample BP-2, collected from the boring, had reported concentrations that exceeded the NPDES screening levels for some metals (beryllium, copper, mercury, nickel, lead, antimony, and zinc), and for some dissolved metals (cadmium, copper, mercury, nickel, lead, and antimony). A summary of the analytical test results is presented in Table 1. The laboratory report is presented in Attachment B.

Based on the analytical results, it is likely that an NPDES construction dewatering permit will require treatment of the excess water prior to discharge to comply with discharge limits. Some of the analytes have watershed specific limits which should be researched when applying for an NPDES permit.

If you have any questions regarding this report, please contact the undersigned at your convenience.

Respectfully submitted,  
**NINYO & MOORE**



Andrew C. Luong, EIT  
Staff Environmental Engineer



Michael S. Cushner, CAC  
Project Environmental Scientist



Nancy Anglin  
Principal Engineer

ACL/MS/NA/lr

Attachments: Table 1 – Water Sample Analytical Results  
Figure 1 – Site Location  
Figure 2 – Groundwater Sampling Locations  
Attachment A – NPDES Supplemental Requirements  
Attachment B – Laboratory Report and Chains-of-Custody

Distribution: (1) Addressee (via e-mail)  
(1) Dino D’Emilia (via e-mail)

**TABLE 1 – WATER SAMPLE ANALYTICAL RESULTS**

| Sample                           | BP-1        | BP-2            | NPDES Screening Levels |
|----------------------------------|-------------|-----------------|------------------------|
| Sample Date                      | 7/1/2014    | 7/1/2014        |                        |
| <b>Metals</b>                    |             |                 |                        |
| Silver (µg/l)                    | ND<0.14     | ND<0.14         | 0.25                   |
| Arsenic (µg/l)                   | ND<0.61     | ND<0.61         | 10                     |
| Boron (mg/l)                     | 0.33        | 0.43            | NA                     |
| Beryllium (µg/l)                 | ND<0.50     | <b>2.2J</b>     | 0.5                    |
| Cadmium (µg/l)                   | <b>5.3</b>  | ND<0.18         | 0.5                    |
| Chromium (µg/l)                  | 1.9J        | 230             | --                     |
| Hexavalent Chromium (mg/l)       | ND<0.00027  | ND<0.00027      | 0.005                  |
| Copper (µg/l)                    | <b>24</b>   | <b>240</b>      | 0.5                    |
| Mercury (mg/l)                   | 0.00003J    | <b>0.00027J</b> | 0.0002                 |
| Nickel (µg/l)                    | <b>1.8J</b> | <b>180</b>      | 1                      |
| Lead (µg/l)                      | <b>12</b>   | <b>97</b>       | 0.5                    |
| Antimony (µg/l)                  | <b>5.8</b>  | <b>10</b>       | 5                      |
| Selenium (µg/l)                  | ND<0.63     | ND<0.63         | 2                      |
| Thallium (µg/l)                  | ND<0.17     | ND<0.17         | 1                      |
| Zinc (µg/l)                      | <b>38</b>   | <b>510</b>      | 20                     |
| <b>Dissolved Metals</b>          |             |                 |                        |
| Silver (µg/l)                    | ND<0.14     | ND<0.14         | 0.25                   |
| Arsenic (µg/l)                   | ND<0.61     | ND<0.61         | 10                     |
| Beryllium (µg/l)                 | ND<0.50     | ND<0.50         | 0.5                    |
| Cadmium (µg/l)                   | <b>1.8J</b> | <b>1.7J</b>     | 0.5                    |
| Chromium (µg/l)                  | 1.1J        | 1.4J            | --                     |
| Hexavalent Chromium (mg/l)       | ND<0.00027  | ND<0.00027      | 0.005                  |
| Copper (µg/l)                    | <b>15</b>   | <b>5.5J</b>     | 0.5                    |
| Mercury (mg/l)                   | ND<0.00015  | <b>0.00026J</b> | 0.0002                 |
| Nickel (µg/l)                    | <b>1.5J</b> | <b>1.9J</b>     | 1                      |
| Lead (µg/l)                      | <b>7.2</b>  | <b>2.4</b>      | 0.5                    |
| Antimony (µg/l)                  | 3.0         | <b>7.8</b>      | 5                      |
| Selenium (µg/l)                  | ND<0.63     | ND<0.63         | 2                      |
| Thallium (µg/l)                  | ND<0.17     | ND<0.17         | 1                      |
| Zinc (µg/l)                      | <b>37</b>   | 14              | 20                     |
| <b>Volatile Organics</b>         |             |                 |                        |
| 1,1,1-Trichloroethane (µg/l)     | ND<0.23     | ND<0.23         | 2                      |
| 1,1,2,2-Tetrachloroethane (µg/l) | ND<0.42     | ND<0.42         | 0.5                    |
| 1,1,2-Trichloroethane (µg/l)     | ND<0.34     | ND<0.34         | 0.5                    |
| 1,1-Dichloroethane (µg/l)        | ND<0.29     | ND<0.29         | 1                      |
| 1,1-Dichloroethene (µg/l)        | ND<0.070    | ND<0.070        | 0.5                    |
| 1,1-Dichloropropene (µg/l)       | ND<0.33     | ND<0.33         | --                     |
| 1,2,4-Trichlorobenzene (µg/l)    | ND<0.22     | ND<0.22         | --                     |
| 1,2-Dibromoethane (EDB) (µg/l)   | ND<0.38     | ND<0.38         | --                     |
| 1,2-Dichlorobenzene (µg/l)       | ND<0.36     | ND<0.36         | 0.5                    |
| 1,2-Dichloroethane (µg/l)        | ND<0.25     | ND<0.25         | 0.5                    |
| 1,2-Dichloropropane (µg/l)       | ND<0.15     | ND<0.15         | 0.5                    |
| 1,3-Dichlorobenzene (µg/l)       | ND<0.20     | ND<0.20         | 2                      |
| 1,4-Dichlorobenzene (µg/l)       | ND<0.36     | ND<0.36         | 0.5                    |
| 2-Butanone (µg/l)                | ND<1.8      | ND<1.8          | --                     |
| 2-Chloroethylvinyl ether (µg/l)  | ND<0.28     | ND<0.28         | 1                      |
| Acetone (µg/l)                   | ND<5.6      | ND<5.6          | NA                     |
| Acrolein (µg/l)                  | ND<2.6      | ND<2.6          | 5                      |
| Acrylonitrile (µg/l)             | ND<1.5      | ND<1.5          | 2.0                    |
| Benzene (µg/l)                   | ND<0.47     | ND<0.47         | 0.5                    |
| Bromobenzene (µg/l)              | ND<0.42     | ND<0.42         | --                     |

**TABLE 1 – WATER SAMPLE ANALYTICAL RESULTS**

| Sample                                    | BP-1      | BP-2      | NPDES Screening Levels |
|---|-----------|-----------|------------------------|
| Sample Date                               | 7/1/2014  | 7/1/2014  |                        |
| Bromodichloromethane (µg/l)               | ND<0.31   | ND<0.31   | 0.5                    |
| Bromoform (µg/l)                          | ND<0.50   | ND<0.50   | 0.5                    |
| Bromomethane (µg/l)                       | ND<0.67   | ND<0.67   | --                     |
| Carbon tetrachloride (µg/l)               | ND<0.38   | ND<0.38   | 0.5                    |
| Chlorobenzene (µg/l)                      | ND<0.31   | ND<0.31   | 2                      |
| Chloroethane (µg/l)                       | ND<0.55   | ND<0.55   | 2                      |
| Chloroform (µg/l)                         | ND<0.36   | ND<0.36   | 2                      |
| Chloromethane (µg/l)                      | ND<0.47   | ND<0.47   | --                     |
| cis-1,2-Dichloroethene (µg/l)             | ND<0.49   | ND<0.49   | --                     |
| cis-1,3-Dichloropropene (µg/l)            | ND<0.31   | ND<0.31   | --                     |
| Di-isopropyl ether (µg/l)                 | ND<0.24   | ND<0.24   | 2                      |
| Dibromochloromethane (µg/l)               | ND<0.36   | ND<0.36   | 0.5                    |
| Ethyl tert-butyl ether (µg/l)             | ND<0.15   | ND<0.15   | 2                      |
| Ethylbenzene (µg/l)                       | ND<0.38   | ND<0.38   | 2                      |
| m,p-Xylene (µg/l)                         | ND<0.62   | ND<0.62   | NA                     |
| Methyl tert-butyl ether (µg/l)            | ND<0.42   | ND<0.42   | 2                      |
| Methylene chloride (µg/l)                 | ND<0.43   | ND<0.43   | 0.5                    |
| o-Xylene (µg/l)                           | ND<0.30   | ND<0.30   | NA                     |
| Tert-amyl methyl ether (µg/l)             | ND<0.16   | ND<0.16   | 2                      |
| Tert-butyl alcohol (µg/l)                 | ND<2.0    | ND<2.0    | 10                     |
| Tetrachloroethene (µg/l)                  | ND<0.49   | ND<0.49   | 0.5                    |
| Toluene (µg/l)                            | ND<0.48   | ND<0.48   | 2                      |
| trans-1,2-Dichloroethene (µg/l)           | ND<0.37   | ND<0.37   | 1                      |
| trans-1,3-Dichloropropene (µg/l)          | ND<0.32   | ND<0.32   | --                     |
| Trichloroethene (µg/l)                    | ND<0.31   | ND<0.31   | 0.5                    |
| Trichlorofluoromethane (µg/l)             | ND<0.19   | ND<0.19   | --                     |
| Vinyl chloride (µg/l)                     | ND<0.47   | ND<0.47   | 0.5                    |
| <b>Organochlorine Pesticides and PCBs</b> |           |           |                        |
| 4,4'-DDD (µg/l)                           | ND<0.0030 | ND<0.0030 | 0.05                   |
| 4,4'-DDE (µg/l)                           | ND<0.0030 | ND<0.0030 | 0.05                   |
| 4,4'-DDT (µg/l)                           | ND<0.0070 | ND<0.0070 | 0.01                   |
| Aldrin (µg/l)                             | ND<0.0020 | ND<0.0020 | 0.005                  |
| Chlordane (µg/l)                          | ND<0.050  | ND<0.050  | 0.1                    |
| Dieldrin (µg/l)                           | ND<0.0020 | ND<0.0020 | 0.01                   |
| Endosulfan I (µg/l)                       | ND<0.020  | ND<0.020  | 0.02                   |
| Endosulfan II (µg/l)                      | ND<0.0040 | ND<0.0040 | 0.01                   |
| Endosulfan sulfate (µg/l)                 | ND<0.010  | ND<0.010  | 0.05                   |
| Endrin (µg/l)                             | ND<0.0020 | ND<0.0020 | 0.01                   |
| Endrin aldehyde (µg/l)                    | ND<0.010  | ND<0.010  | 0.01                   |
| HCH-alpha (µg/l)                          | ND<0.0020 | ND<0.0020 | 0.01                   |
| HCH-beta (µg/l)                           | ND<0.0040 | ND<0.0040 | 0.005                  |
| HCH-delta (µg/l)                          | ND<0.0030 | ND<0.0030 | 0.005                  |
| HCH-gamma (lindane) (µg/l)                | ND<0.0050 | ND<0.0050 | 0.02                   |
| Heptachlor (µg/l)                         | ND<0.0020 | ND<0.0020 | 0.01                   |
| Heptachlor epoxide (µg/l)                 | ND<0.0030 | ND<0.0030 | 0.01                   |
| PCB-1016 (µg/l)                           | ND<0.40   | ND<0.40   | 0.5                    |
| PCB-1221 (µg/l)                           | ND<0.40   | ND<0.40   | 0.5                    |
| PCB-1232 (µg/l)                           | ND<0.40   | ND<0.40   | 0.5                    |
| PCB-1242 (µg/l)                           | ND<0.40   | ND<0.40   | 0.5                    |
| PCB-1248 (µg/l)                           | ND<0.40   | ND<0.40   | 0.5                    |
| PCB-1254 (µg/l)                           | ND<0.40   | ND<0.40   | 0.5                    |
| PCB-1260 (µg/l)                           | ND<0.40   | ND<0.40   | 0.5                    |
| Toxaphene (µg/l)                          | ND<0.50   | ND<0.50   | ND<0.10                |

**TABLE 1 – WATER SAMPLE ANALYTICAL RESULTS**

| Sample                             | BP-1     | BP-2     | NPDES Screening Levels |
|------------------------------------|----------|----------|------------------------|
| Sample Date                        | 7/1/2014 | 7/1/2014 |                        |
| <b>Semivolatile Organics</b>       |          |          |                        |
| 1,2,4-Trichlorobenzene (µg/l)      | ND<0.30  | ND<0.30  | 5                      |
| 1,2-Dichlorobenzene (µg/l)         | ND<0.26  | ND<0.26  | 0.5                    |
| 1,2-Diphenylhydrazine (µg/l)       | ND<1.0   | ND<1.0   | 1                      |
| 1,3-Dichlorobenzene (µg/l)         | ND<0.29  | ND<0.29  | 2                      |
| 1,4-Dichlorobenzene (µg/l)         | ND<0.26  | ND<0.26  | 2                      |
| 2,4,6-Trichlorophenol (µg/l)       | ND<1.0   | ND<1.0   | 10                     |
| 2,4-Dichlorophenol (µg/l)          | ND<1.0   | ND<1.0   | 5                      |
| 2,4-Dimethylphenol (µg/l)          | ND<0.54  | ND<0.54  | 2                      |
| 2,4-Dinitrophenol (µg/l)           | ND<1.0   | ND<1.0   | 5                      |
| 2,4-Dinitrotoluene (µg/l)          | ND<0.45  | ND<0.45  | 5                      |
| 2,6-Dinitrotoluene (µg/l)          | ND<0.21  | ND<0.21  | 5                      |
| 2-Chloronaphthalene (µg/l)         | ND<0.090 | ND<0.090 | 10                     |
| 2-Chlorophenol (µg/l)              | ND<0.27  | ND<0.27  | 5                      |
| 2-Methyl-4,6-dinitrophenol (µg/l)  | ND<5.0   | ND<5.0   | 5                      |
| 2-Nitrophenol (µg/l)               | ND<0.46  | ND<0.46  | 10                     |
| 3,3'-Dichlorobenzidine (µg/l)      | ND<0.59  | ND<0.59  | 5                      |
| 4-Bromophenyl phenyl ether (µg/l)  | ND<0.26  | ND<0.26  | 5                      |
| 4-Chloro-3-methylphenol (µg/l)     | ND<0.50  | ND<0.50  | 1                      |
| 4-Chlorophenyl phenyl ether (µg/l) | ND<0.33  | ND<0.33  | 5                      |
| 4-Nitrophenol (µg/l)               | ND<0.90  | ND<0.90  | 5                      |
| Acenaphthene (µg/l)                | ND<0.16  | ND<0.16  | 1                      |
| Acenaphthylene (µg/l)              | ND<0.16  | ND<0.16  | 10                     |
| Anthracene (µg/l)                  | ND<0.23  | ND<0.23  | 5                      |
| Benzidine (µg/l)                   | ND<5.0   | ND<5.0   | 5                      |
| Benzo (a) anthracene (µg/l)        | ND<0.16  | ND<0.16  | 5                      |
| Benzo (a) pyrene (µg/l)            | ND<0.31  | ND<0.31  | 2                      |
| Benzo (b) fluoranthene (µg/l)      | ND<0.31  | ND<0.31  | 10                     |
| Benzo (g,h,i) perylene (µg/l)      | ND<0.28  | ND<0.28  | 5                      |
| Benzo (k) fluoranthene (µg/l)      | ND<0.31  | ND<0.31  | 2                      |
| Bis(2-chloroethoxy)methane (µg/l)  | ND<0.27  | ND<0.27  | 5                      |
| Bis(2-chloroethyl)ether (µg/l)     | ND<0.42  | ND<0.42  | 1                      |
| Bis(2-chloroisopropyl)ether (µg/l) | ND<0.38  | ND<0.38  | 10                     |
| Bis(2-ethylhexyl)phthalate (µg/l)  | ND<0.59  | ND<0.59  | 5                      |
| Butyl benzyl phthalate (µg/l)      | ND<0.62  | ND<0.62  | 10                     |
| Chrysene (µg/l)                    | ND<0.10  | ND<0.10  | 5                      |
| Di-n-butyl phthalate (µg/l)        | ND<0.25  | ND<0.25  | 10                     |
| Di-n-octyl phthalate (µg/l)        | ND<0.41  | ND<0.41  | 10                     |
| Dibenz (a,h) anthracene (µg/l)     | ND<0.10  | ND<0.10  | 0.1                    |
| Diethyl phthalate (µg/l)           | ND<0.57  | ND<0.57  | 10                     |
| Dimethyl phthalate (µg/l)          | ND<0.22  | ND<0.22  | 10                     |
| Diphenylamine (µg/l)               | ND<0.12  | ND<0.12  | --                     |
| Fluoranthene (µg/l)                | ND<0.13  | ND<0.13  | 10                     |
| Fluorene (µg/l)                    | ND<0.14  | ND<0.14  | 10                     |
| Hexachlorobenzene (µg/l)           | ND<0.35  | ND<0.35  | 1                      |
| Hexachlorobutadiene (µg/l)         | ND<0.56  | ND<0.56  | 1                      |
| Hexachlorocyclopentadiene (µg/l)   | ND<5.0   | ND<5.0   | 5                      |
| Hexachloroethane (µg/l)            | ND<0.25  | ND<0.25  | 1                      |
| *Indeno (1,2,3-cd) pyrene (µg/l)   | ND<0.10  | ND<0.10  | 0.05                   |
| Isophorone (µg/l)                  | ND<0.64  | ND<0.64  | 1                      |
| N-Nitrosodi-n-propylamine (µg/l)   | ND<0.58  | ND<0.58  | 5                      |
| N-Nitrosodimethylamine (µg/l)      | ND<5.0   | ND<5.0   | 5                      |
| Naphthalene (µg/l)                 | ND<0.17  | ND<0.17  | 10                     |
| Nitrobenzene (µg/l)                | ND<0.23  | ND<0.23  | 10                     |

**TABLE 1 – WATER SAMPLE ANALYTICAL RESULTS**

| Sample   | BP-1      | BP-2      | NPDES Screening Levels |
|--|-----------|-----------|------------------------|
| Sample Date  | 7/1/2014  | 7/1/2014  |                        |
| Pentachlorophenol (µg/l)   | ND<1.0    | ND<1.0    | 1                      |
| Phenanthrene (µg/l)  | ND<0.14   | ND<0.14   | 5                      |
| Phenol (µg/l)  | ND<0.36   | ND<0.36   | 50                     |
| Pyrene (µg/l)  | ND<0.20   | ND<0.20   | 10                     |
| <b>Miscellaneous</b>   |           |           |                        |
| Trivalent Chromium (mg/l)  | ND<0.0012 | 0.23      | 0.01                   |
| Trivalent Chromium (Dissolved) (mg/l)  | ND<0.0012 | ND<0.0012 | 0.01                   |
| TRPH (mg/l)  | ND<0.10   | ND<0.10   | 0.1                    |
| Gasoline Range Hydrocarbons (C4-C12) (µg/l)  | ND<14     | ND<14     | --                     |
| Diesel Range Organics (C10-C24) (mg/l)   | ND<0.050  | ND<0.050  | --                     |
| Methanol (mg/l)  | ND<1.0    | ND<1.0    | 1                      |
| Ethanol (µg/l)   | ND<50     | ND<50     | 1000                   |
| Perchlorate (µg/l)   | ND<4      | ND<4      | NA                     |
| 1,4-Dioxane (µg/l)   | ND<0.50   | ND<0.50   | NA                     |
| Total Cyanide (µg/l)   | ND<5.0    | ND<5.0    | 5                      |
| <b>Conventional Chemistry Parameters</b>   |           |           |                        |
| Biochemical Oxygen Demand (mg/l)   | 4.20      | 28.0      | NA                     |
| Chloride (mg/l)  | 160       | 260       | NA                     |
| Total Hardness (mg/l)  | 174       | 368       | NA                     |
| Hexane Extractable Material (HEM; Oil & Grease) (mg/l)   | ND<1.60   | 3.10      | NA                     |
| Nitrite as N (mg/l)  | ND<0.0200 | ND<0.0200 | --                     |
| Nitrate as N (mg/l)  | 2.60      | 3.40      | --                     |
| Nitrate/Nitrite as N (mg/l)  | 2.60      | 3.40      | NA                     |
| pH (pH Units)  | 7.10      | 7.04      | NA                     |
| Total Settleable Solids (ml/l)   | ND<0.100  | 76.0      | NA                     |
| Sulfate as SO4 (mg/l)  | 150       | 175       | NA                     |
| Sulfide (mg/l)   | ND<0.05   | ND<0.05   | NA                     |
| Total Dissolved Solids (mg/l)  | 570       | 1,160     | NA                     |
| Total Suspended Solids (mg/l)  | 9.00      | 5,570     | NA                     |
| Turbidity (NTU)  | 1.63      | >180      | NA                     |
| <b>Notes:</b>  |           |           |                        |
| J – reported value is estimated  |           |           |                        |
| µg/l – micrograms per liter  |           |           |                        |
| mg/l – milligrams per liter  |           |           |                        |
| ml/l – milliliters per liter   |           |           |                        |
| NA – not applicable  |           |           |                        |
| ND – not detected above the method detection limit   |           |           |                        |
| NPDES – National Pollutant Discharge Elimination System  |           |           |                        |
| NTU – nephelometer turbidity units   |           |           |                        |
| PCB – polychlorinated biphenyls  |           |           |                        |
| RWQCB – Regional Water Quality Control Board   |           |           |                        |
| TRPH – total recoverable petroleum hydrocarbons  |           |           |                        |
| -- – no screening level  |           |           |                        |
| * – the laboratory method detection limit is greater than the RWQCB NPDES Application Supplemental Requirements Minimum Levels for discharges of wastewater to surface waters. |           |           |                        |
| <b>BOLD – exceeds the RWQCB NPDES Application Supplemental Requirements Minimum Levels for discharges of wastewater to surface waters.</b>                                     |           |           |                        |
| Please refer to the attached laboratory reports for additional details.  |           |           |                        |



REFERENCE: 52ND EDITION, THOMAS GUIDE FOR LOS ANGELES/ORANGE COUNTIES, STREET GUIDE AND DIRECTORY.

SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.  
Map © Rand McNally, R.L.07-S-129

**Ninyo & Moore**

**SITE LOCATION**

FIGURE

PROJECT NO.

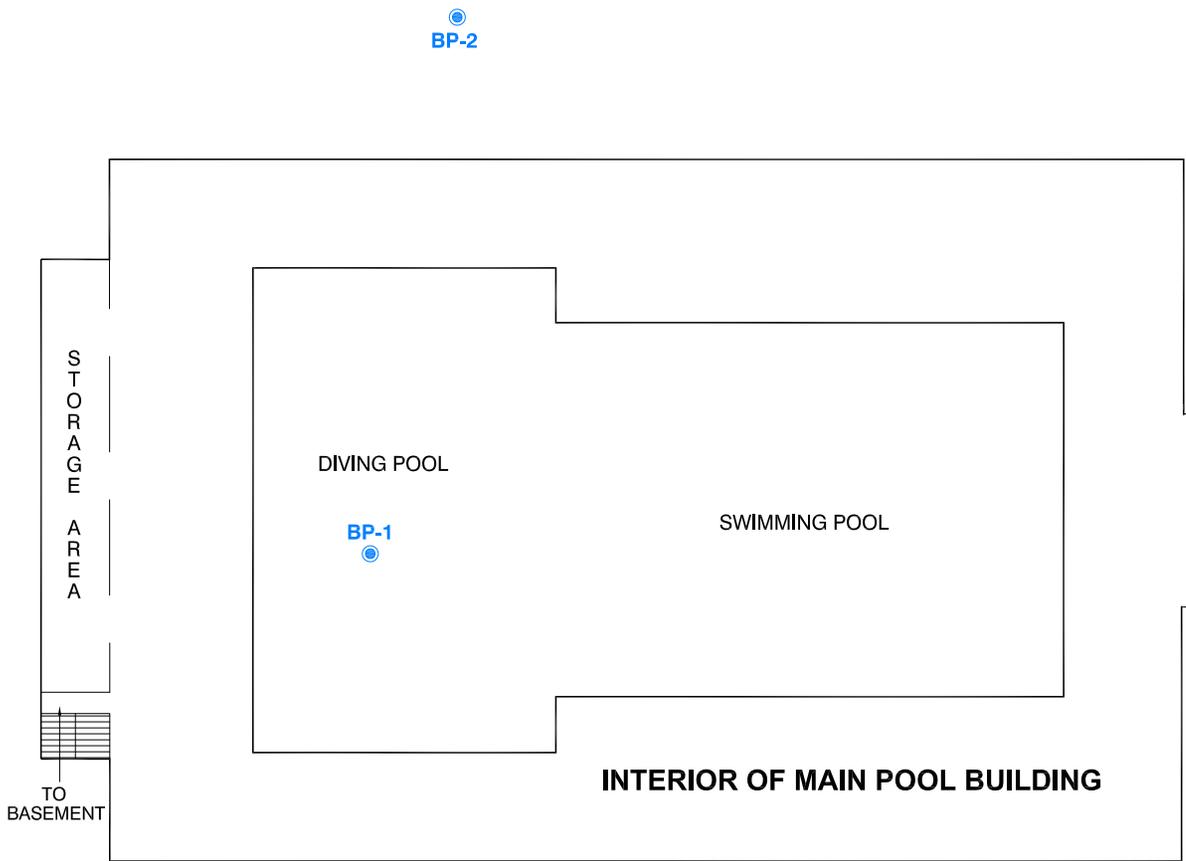
DATE

4000 EAST OLYMPIC PLAZA  
LONG BEACH, CALIFORNIA

209120001

7/14

**1**



EXTERIOR OF MAIN POOL BUILDING

| LEGEND |                                 |
|--------|---------------------------------|
| BP-2   | ● GROUNDWATER SAMPLING LOCATION |



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

|                                 |              |                                       |                    |
|---------------------------------|--------------|---------------------------------------|--------------------|
| <b><i>Ninyo &amp; Moore</i></b> |              | <b>GROUNDWATER SAMPLING LOCATIONS</b> | FIGURE<br><b>2</b> |
| PROJECT NO.<br>209120001        | DATE<br>7/14 |                                       |                    |

**ATTACHMENT A**  
**NPDES SUPPLEMENTAL REQUIREMENTS**

## NPDES Application Supplemental Requirements

### I. Pollutants Analysis/Measurements

Analysis/measurement for the following pollutants should accompany the NPDES application for discharges of wastewater to surface waters.

Table I. List of Pollutants Analysis/Measurements

| ID Num. | Pollutant  | Quantitation Level | Screening Levels |                     | Minimum Levels (ML) |
|---------|--|--------------------|------------------|---------------------|---------------------|
|         |  |                    | MUN <sup>a</sup> | Others <sup>b</sup> |                     |
|         |  | Unit -- (µg/L)     | Unit -- (µg/L)   |                     | Unit -- (µg/L)      |
|         | <b>Metals<sup>(a)</sup></b>                                    |                    |                  |                     |                     |
| 1097    | Antimony (Sb)  |                    | 14               | 4300                | 5                   |
| 1000    | Arsenic (As)   |                    | 50               | 36                  | 10                  |
| 1012    | Beryllium (Be)   |                    | 4                | --                  | 0.5                 |
| 1027    | Cadmium (Cd)   |                    | 2.4              | 9.4                 | 0.5                 |
| 1033    | Chromium III (Cr3+)  |                    | 50               | --                  | 10                  |
| 1032    | Chromium VI (Cr6+)   |                    | 11               | 50                  | 5                   |
| 1119    | Copper (Cu)  |                    | 9.4              | 3.7                 | 0.5                 |
| 720     | Cyanide (CN)   |                    | 5.2              | --                  | 5                   |
| 1051    | Lead (Pb)  |                    | 3.2              | 8.5                 | 0.5                 |
| 71900   | Mercury (Hg)   |                    | 0.050            | 0.051               | 0.2                 |
| 1067    | Nickel (Ni)  |                    | 52               | 8.3                 | 1                   |
| 1147    | Selenium (Se)  |                    | 5.0              | 71                  | 2                   |
| 1077    | Silver (Ag)  |                    | 4                | 2.2                 | 0.25                |
| 1059    | Thallium (Ti)  |                    | 1.7              | 6.3                 | 1                   |
| 1092    | Zinc (Zn)  |                    | 122              | 86                  | 20                  |
|         | (a) = Metals concentrations are expressed as total recoverable |                    |                  |                     |                     |
|         | <b>Volatile Organic Compounds</b>                              |                    |                  |                     |                     |
| 34496   | 1,1 Dichloroethane   |                    | 5                | 5                   | 1                   |
| 34501   | 1,1 Dichloroethylene   |                    | 0.057            | 3.2                 | 0.5                 |
| 34506   | 1,1,1 Trichloroethane  |                    | 200              | 200                 | 2                   |
| 34511   | 1,1,2 Trichloroethane  |                    | 0.60             | 42                  | 0.5                 |
| 34516   | 1,1,2,2 Tetrachloroethane                                      |                    | 0.17             | 11                  | 0.5                 |
| 34536   | 1,2 Dichlorobenzene  |                    | 600              | 17000               | 0.5                 |
| 32103   | 1,2 Dichloroethane   |                    | 0.38             | 99                  | 0.5                 |
| 34541   | 1,2 Dichloropropane  |                    | 0.52             | 39                  | 0.5                 |
| 34549   | 1,2-Trans Dichloroethylene                                     |                    | 10               | 140000              | 1                   |
| 34566   | 1,3 Dichlorobenzene  |                    | 400              | 2600                | 2                   |
| 34561   | 1,3 Dichloropropylene  |                    | 0.5              | 0.5                 | 0.5                 |
| 34571   | 1,4 Dichlorobenzene  |                    | 5                | 0.5                 | 0.5                 |
| 34576   | 2-Chloroethyl vinyl ether                                      |                    | --               | --                  | 1                   |
| 34210   | Acrolein   |                    | 100              | 100                 | 5                   |
| 34215   | Acrylonitrile  |                    | 0.059            | 0.66                | 2.0                 |
| 34030   | Benzene  |                    | 1.0              | 1.0                 | 0.5                 |
| 32104   | Bromoform  |                    | 4.3              | 360                 | 0.5                 |
| 32102   | Carbon Tetrachloride   |                    | 0.25             | 4.4                 | 0.5                 |
| 34301   | Chlorobenzene  |                    | 30               | 21000               | 2                   |
| 34306   | Chlorodibromo-methane  |                    | 0.401            | 34                  | 0.5                 |
| 85811   | Chloroethane   |                    | 100              | 100                 | 2                   |
| 32106   | Chloroform   |                    | 100              | 100                 | 2                   |
| 32101   | Dichlorobromo-methane  |                    | 0.56             | 46                  | 0.5                 |
| 78113   | Ethylbenzene   |                    | 700              | 700                 | 2                   |
| 34413   | Methyl Bromide   |                    | 10               | 4000                | 2                   |
| 34418   | Methylene Chloride   |                    | 4.7              | 1600                | 0.5                 |
| 34475   | Tetrachloroethylene  |                    | 0.8              | 8.85                | 0.5                 |
| 34010   | Toluene  |                    | 150              | 150                 | 2                   |
| 39180   | Trichloroethylene  |                    | 2.7              | 5                   | 0.5                 |
| 39175   | Vinyl Chloride   |                    | 0.5              | 0.5                 | 0.5                 |
| 63      | Xylenes  |                    | 1750             | 1750                | na                  |
|         | Acetone  |                    | 700              | 700                 | na                  |
|         | Ethylene Dibromide   |                    | 0.05             | 0.05                | na                  |
|         | Methyl Chloride  |                    | 3                | 3                   | 0.5                 |

<sup>a</sup> Applies to water with Municipal and Domestic Supply (MUN) (indicated with E and I in the Basin Plan) beneficial uses designations.

<sup>b</sup> Applies to all other receiving waters.

| ID Num. | Pollutant                                | Quantitation Level | Screening Levels |                     | Minimum Levels (ML) |
|---------|--|--------------------|------------------|---------------------|---------------------|
|         |  |                    | MUN <sup>a</sup> | Others <sup>b</sup> |                     |
|         |  | Unit -- (µg/L)     | Unit -- (µg/L)   |                     | Unit -- (µg/L)      |
|         | Methyl ethyl ketone                      |                    | 700              | 700                 | na                  |
|         | <b>Pesticides and PCBs</b>               |                    |                  |                     |                     |
| 39310   | 4,4'-DDD                                 |                    | 0.00083          | 0.00084             | 0.05                |
| 39320   | 4,4'-DDE                                 |                    | 0.00059          | 0.00059             | 0.05                |
| 39300   | 4,4'-DDT                                 |                    | 0.00059          | 0.00059             | 0.01                |
| 78428   | Alpha-Endosulfan                         |                    | 0.056            | 0.0087              | 0.02                |
| 39336   | Alpha-BHC                                |                    | 0.0039           | 0.013               | 0.01                |
| 39330   | Aldrin                                   |                    | 0.00013          | 0.00014             | 0.005               |
| 34356   | Beta-Endosulfan                          |                    | 0.056            | 0.0087              | 0.01                |
| 39338   | beta-BHC                                 |                    | 0.014            | 0.046               | 0.005               |
| 39350   | Chlordane                                |                    | 0.00057          | 0.00059             | 0.1                 |
| 34198   | delta-BHC                                |                    | --               | --                  | 0.005               |
| 39380   | Dieldrin                                 |                    | 0.00014          | 0.00014             | 0.01                |
| 34351   | Endosulfan Sulfate                       |                    | 110              | 240                 | 0.05                |
| 39390   | Endrin                                   |                    | 0.036            | 0.0023              | 0.01                |
| 34366   | Endrin Aldehyde                          |                    | 0.76             | 0.81                | 0.01                |
| 39410   | Heptachlor                               |                    | 0.00021          | 0.00021             | 0.01                |
| 39420   | Heptachlor Epoxide                       |                    | 0.0001           | 0.00011             | 0.01                |
| 39340   | gamma-BHC                                |                    | 0.019            | 0.063               | 0.02                |
| 4166    | PCB 1016                                 |                    | 0.00017          | 0.00017             | 0.5                 |
| 4166    | PCB 1221                                 |                    | 0.00017          | 0.00017             | 0.5                 |
| 4166    | PCB 1232                                 |                    | 0.00017          | 0.00017             | 0.5                 |
| 4166    | PCB 1242                                 |                    | 0.00017          | 0.00017             | 0.5                 |
| 4166    | PCB 1248                                 |                    | 0.00017          | 0.00017             | 0.5                 |
| 4166    | PCB 1254                                 |                    | 0.00017          | 0.00017             | 0.5                 |
| 4166    | PCB 1260                                 |                    | 0.00017          | 0.00017             | 0.5                 |
| 39400   | Toxaphene                                |                    | 0.00073          | 0.00075             | 0.5                 |
|         | <b>Semi - Volatile Organic Compounds</b> |                    |                  |                     |                     |
| 34536   | 1,2 Dichlorobenzene                      |                    | 600              | 17000               | 0.5                 |
| 34346   | 1,2 Diphenylhydrazine                    |                    | 0.040            | 0.54                | 1                   |
| 34551   | 1,2,4 Trichlorobenzene                   |                    | 70               | --                  | 5                   |
| 34566   | 1,3 Dichlorobenzene                      |                    | 400              | 2600                | 2                   |
| 34571   | 1,4 Dichlorobenzene                      |                    | 5                | 2600                | 2                   |
| 34586   | 2 Chlorophenol                           |                    | 120              | 400                 | 5                   |
| 34601   | 2,4 Dichlorophenol                       |                    | 93               | 790                 | 5                   |
| 34606   | 2,4 Dimethylphenol                       |                    | 540              | 2300                | 2                   |
| 34616   | 2,4 Dinitrophenol                        |                    | 70               | 14000               | 5                   |
| 34611   | 2,4 Dinitrotoluene                       |                    | 0.11             | 9.1                 | 5                   |
| 34624   | 2,4,6 Trichlorophenol                    |                    | 2.1              | 6.5                 | 10                  |
| 34626   | 2,6 Dinitrotoluene                       |                    | --               | --                  | 5                   |
| 34591   | 2-Nitrophenol                            |                    | --               | --                  | 10                  |
| 34581   | 2-Chloronaphthalene                      |                    | 1700             | 4300                | 10                  |
| 34631   | 3,3' Dichlorobenzidine                   |                    | 0.04             | 0.077               | 5                   |
|         | 3-Methyl-4-Chlorophenol                  |                    | --               | --                  | 1                   |
| 3615    | 2-Methyl-4,6-Dinitrophenol               |                    | 13               | 765                 | 5                   |
| 34646   | 4-Nitrophenol                            |                    | --               | --                  | 5                   |
| 34636   | 4-Bromophenyl phenyl ether               |                    | --               | --                  | 5                   |
| 34641   | 4-Chlorophenyl phenyl ether              |                    | --               | --                  | 5                   |
| 34205   | Acenaphthene                             |                    | 1200             | 2700                | 1                   |
| 34200   | Acenaphthylene                           |                    | --               | --                  | 10                  |
| 34220   | Anthracene                               |                    | 9600             | 110000              | 5                   |
| 39120   | Benzidine                                |                    | 0.00012          | 0.00054             | 5                   |
| 34526   | Benzo (a) Anthracene                     |                    | 0.0044           | 0.049               | 5                   |
| 34247   | Benzo (a) Pyrene                         |                    | 0.0044           | 0.049               | 2                   |
| 34230   | Benzo (b) Fluoranthene                   |                    | 0.0044           | 0.049               | 10                  |
| 34521   | Benzo (g,h,i) Perylene                   |                    | --               | --                  | 5                   |
| 34242   | Benzo (k) Fluoranthene                   |                    | 0.0044           | 0.049               | 2                   |
| 34278   | Bis (2-Chloroethoxyl) methane            |                    | --               | --                  | 5                   |
| 34273   | Bis(2-Chloroethyl) ether                 |                    | 0.031            | 1.4                 | 1                   |
| 34283   | Bis(2-Chloroisopropyl) ether             |                    | 1400             | 170000              | 10                  |
| 39100   | Bis(2-Ethylhexyl) phthalate              |                    | 1.8              | 5.9                 | 5                   |
| 34292   | Butyl benzyl phthalate                   |                    | 3000             | 5200                | 10                  |
| 34320   | Chrysene                                 |                    | 0.0044           | 0.049               | 5                   |
| 34556   | Dibenzo(a,h)-anthracene                  |                    | 0.0044           | 0.049               | 0.1                 |

| ID Num.  | Pollutant  | Quantitation Level | Screening Levels |                     | Minimum Levels (ML) |
|--|--|--------------------|------------------|---------------------|---------------------|
|  |  |                    | MUN <sup>a</sup> | Others <sup>b</sup> |                     |
|  |  | Unit -- (µg/L)     | Unit -- (µg/L)   |                     | Unit -- (µg/L)      |
| 34336  | Diethyl phthalate  |                    | 23000            | 120000              | 10                  |
| 34341  | Dimethyl phthalate   |                    | 313000           | 2900000             | 10                  |
| 39110  | di-n-Butyl phthalate   |                    | 2700             | 12000               | 10                  |
| 34596  | di-n-Octyl phthalate   |                    | --               | --                  | 10                  |
| 34376  | Fluoranthene   |                    | 300              | 370                 | 10                  |
| 34381  | Fluorene   |                    | 1300             | 14000               | 10                  |
| 39700  | Hexachlorobenzene  |                    | 0.00075          | 0.00077             | 1                   |
| 39702  | Hexachlorobutadiene  |                    | 0.44             | 50                  | 1                   |
| 34386  | Hexachloro-cyclopentadiene   |                    | 50               | 17000               | 5                   |
| 34396  | Hexachloroethane   |                    | 1.9              | 8.9                 | 1                   |
| 34403  | Indeno(1,2,3,cd)-pyrene  |                    | 0.0044           | 0.049               | 0.05                |
| 34408  | Isophorone   |                    | 8.4              | 600                 | 1                   |
| 34438  | N-Nitrosodimethyl amine (NDMA)   |                    | 0.00069          | 8.1                 | 5                   |
| 34428  | N-Nitroso-di-n-propyl amine  |                    | 0.005            | 1.4                 | 5                   |
| 34433  | N-Nitrosodiphenyl amine  |                    | 5.0              | 16                  | 1                   |
| 34696  | Naphthalene  |                    | 21               | --                  | 10                  |
| 34447  | Nitrobenzene   |                    | 17               | 1900                | 10                  |
| 39032  | Pentachlorophenol  |                    | 0.28             | 7.9                 | 1                   |
| 34461  | Phenanthrene   |                    | --               | --                  | 5                   |
| 34694  | Phenol   |                    | 21000            | 4600000             | 50                  |
| 34469  | Pyrene   |                    | 960              | 11000               | 10                  |
|  | <b>Miscellaneous</b>   |                    |                  |                     |                     |
| 82698  | 2,3,7,8-TCDD (Dioxin)  |                    | 1.3E-08          | 1.3E-08             | na                  |
| 948  | Asbestos (in fibers/L k.s.)  |                    | 7000000          | 7000000             | na                  |
|  | Perchlorate  |                    | 4                | 4                   | na                  |
|  | 1,4-Dioxane  |                    | 3                | 3                   | na                  |
|  | Methyl tertiary butyl ether (MTBE)   |                    | 5                | 5                   | 2                   |
|  | Di-isopropyl Ether (DIPE)  |                    | 0.8              | 0.8                 | 2                   |
|  | Ethyl Tertiary Butyl Ether (ETBE)  |                    | 2                | 2                   | 2                   |
|  | Tertiary Amyl Methyl Ether (TAME)  |                    | 2                | 2                   | 2                   |
|  | Tertiary Butyl Alcohol (TBA)   | *                  | 12               | 12                  | 10                  |
|  | Methanol   |                    | 1000             | 1000                | 1000                |
|  | Ethanol  |                    | 1000             | 1000                | 1000                |
|  | <b>Total Petroleum Hydrocarbons</b><br>Using both EPA 418.1 and EPA 8015<br>(modified) methods |                    | 100              | 100                 | 100                 |
| <b>* Analysis required for petroleum-fuel impacted water only.</b> |  |                    |                  |                     |                     |
|  | <b>Conventional</b>  | mg/L               | mg/L             | mg/L                | mg/L                |
|  | Hardness   |                    | na               | na                  | na                  |
|  | pH (pH unit)   |                    | na               | na                  | na                  |
|  | Suspended solids   |                    | na               | na                  | na                  |
|  | BOD520°C   |                    | na               | na                  | na                  |
|  | Oil and grease   |                    | na               | na                  | na                  |
|  | Settleable Solids (ml/L)   |                    | na               | na                  | na                  |
|  | Turbidity  |                    | na               | na                  | na                  |
|  | Total Dissolved Solids   |                    | na               | na                  | na                  |
|  | Chlorides  |                    | na               | na                  | na                  |
|  | Sulfates   |                    | na               | na                  | na                  |
|  | Nitrites+Nitrates (as Nitrogen)  |                    | na               | na                  | na                  |
|  | Sulfides   |                    | na               | na                  | na                  |
|  | Boron  |                    | na               | na                  | na                  |
| Note: na = not applicable -- = no screening level                  |  |                    |                  |                     |                     |

**II. Alternative Method of Disposal**

The application should also be accompanied by a feasibility study of reuse of the wastewater, and if reuse is not feasible, alternatives for disposal other than surface waters.

**ATTACHMENT B**  
**LABORATORY REPORTS AND CHAINS-OF-CUSTODY**



21 July 2014

Michael Cushner  
Ninyo & Moore - Irvine  
475 Goddard Suite 200  
Irvine, CA 92618

RE:NPDES Permit

Work Order No.: 1407011

Attached are the results of the analyses for samples received by the laboratory on 07/01/14 13:55.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.  
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),  
Environmental Laboratory Accreditation Program (ELAP) No. 2320.



Ninyo & Moore - Irvine  
475 Goddard Suite 200  
Irvine CA, 92618

Project: NPDES Permit  
Project Number: [none]  
Project Manager: Michael Cushner

**Reported:**  
07/21/14 09:30

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| BP-1      | 1407011-01    | Liquid | 07/01/14 09:00 | 07/01/14 13:55 |
| BP-2      | 1407011-02    | Liquid | 07/01/14 11:00 | 07/01/14 13:55 |

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*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Conventional Chemistry Parameters by APHA/EPA Methods  
 Sierra Analytical Labs, Inc.**

| Analyte  | Result         | MDL    | Reporting |          | Dilution | Batch   | Prepared | Analyzed       | Method       | Notes |
|--|----------------|--------|-----------|----------|----------|---------|----------|----------------|--------------|-------|
|  |                |        | Limit     | Units    |          |         |          |                |              |       |
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |                |        |           |          |          |         |          |                |              |       |
| <b>Biochemical Oxygen Demand</b>   | <b>4.20</b>    | 2.00   | 2.00      | mg/L     | 1        | B4G0857 | 07/01/14 | 07/06/14 17:00 | EPA 405.1    |       |
| <b>Chloride</b>  | <b>160</b>     | 0.500  | 0.500     | "        | "        | "       | "        | 07/01/14 17:00 | SM 4500-Cl-B |       |
| <b>Total Hardness</b>  | <b>174</b>     | 0.400  | 0.400     | "        | "        | "       | "        | "              | SM 2340 C    |       |
| Hexane Extractable Material (HEM)  | ND             | 1.60   | 2.00      | "        | "        | "       | "        | "              | EPA 1664     |       |
| Nitrite as N   | ND             | 0.0200 | 0.0200    | "        | "        | "       | "        | "              | SM4500-NO2 B |       |
| <b>Nitrate as N</b>  | <b>2.60</b>    | 0.0200 | 0.0200    | "        | "        | "       | "        | "              | EPA 353.3    |       |
| <b>Nitrate/Nitrite as N</b>  | <b>2.60</b>    | 0.0200 | 0.0200    | "        | "        | "       | "        | "              | "            |       |
| <b>pH</b>  | <b>7.10</b>    | 0.100  | 0.100     | pH Units | "        | "       | "        | "              | EPA 150.1    |       |
| Total Settleable Solids  | ND             | 0.100  | 0.100     | mL/L     | "        | "       | "        | "              | EPA 160.5    |       |
| <b>Sulfate as SO4</b>  | <b>150</b>     | 0.500  | 0.500     | mg/L     | "        | "       | "        | "              | EPA 375.4    |       |
| Sulfide  | ND             | 0.05   | 0.05      | "        | "        | "       | "        | "              | EPA 376.1    |       |
| <b>Total Dissolved Solids</b>  | <b>570</b>     | 1.00   | 1.00      | "        | "        | "       | "        | "              | EPA 160.1    |       |
| <b>Total Suspended Solids</b>  | <b>9.00</b>    | 1.00   | 1.00      | "        | "        | "       | "        | "              | EPA 160.2    |       |
| <b>Turbidity</b>   | <b>1.63</b>    | 0.0200 | 0.0200    | NTU      | "        | "       | "        | "              | EPA 180.1    |       |
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |                |        |           |          |          |         |          |                |              |       |
| <b>Biochemical Oxygen Demand</b>   | <b>28.0</b>    | 2.00   | 2.00      | mg/L     | 1        | B4G0857 | 07/01/14 | 07/06/14 17:00 | EPA 405.1    |       |
| <b>Chloride</b>  | <b>260</b>     | 0.500  | 0.500     | "        | "        | "       | "        | 07/01/14 17:00 | SM 4500-Cl-B |       |
| <b>Total Hardness</b>  | <b>368</b>     | 0.400  | 0.400     | "        | "        | "       | "        | "              | SM 2340 C    |       |
| <b>Hexane Extractable Material (HEM)</b>   | <b>3.10</b>    | 1.60   | 2.00      | "        | "        | "       | "        | "              | EPA 1664     |       |
| Nitrite as N   | ND             | 0.0200 | 0.0200    | "        | "        | "       | "        | "              | SM4500-NO2 B |       |
| <b>Nitrate as N</b>  | <b>3.40</b>    | 0.0200 | 0.0200    | "        | "        | "       | "        | "              | EPA 353.3    |       |
| <b>Nitrate/Nitrite as N</b>  | <b>3.40</b>    | 0.0200 | 0.0200    | "        | "        | "       | "        | "              | "            |       |
| <b>pH</b>  | <b>7.04</b>    | 0.100  | 0.100     | pH Units | "        | "       | "        | "              | EPA 150.1    |       |
| <b>Total Settleable Solids</b>   | <b>76.0</b>    | 0.100  | 0.100     | mL/L     | "        | "       | "        | "              | EPA 160.5    |       |
| <b>Sulfate as SO4</b>  | <b>175</b>     | 0.500  | 0.500     | mg/L     | "        | "       | "        | "              | EPA 375.4    |       |
| Sulfide  | ND             | 0.05   | 0.05      | "        | "        | "       | "        | "              | EPA 376.1    |       |
| <b>Total Dissolved Solids</b>  | <b>1160</b>    | 1.00   | 1.00      | "        | "        | "       | "        | "              | EPA 160.1    |       |
| <b>Total Suspended Solids</b>  | <b>5570</b>    | 1.00   | 1.00      | "        | "        | "       | "        | "              | EPA 160.2    |       |
| <b>Turbidity</b>   | <b>&gt;180</b> | 0.0200 | 0.0200    | NTU      | "        | "       | "        | "              | EPA 180.1    |       |

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals by EPA 200 Series Methods**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | MDL | Reporting |  | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-----------|--|-------|----------|-------|----------|----------|--------|-------|
|         |        |     | Limit     |  |       |          |       |          |          |        |       |

**BP-1 (1407011-01) Liquid Sampled: 07/01/14 09:00 Received: 07/01/14 13:55**

|                     |                |         |         |      |   |         |          |                |           |   |
|---------------------|----------------|---------|---------|------|---|---------|----------|----------------|-----------|---|
| Silver              | ND             | 0.14    | 1.5     | µg/L | 1 | B4G0226 | 07/02/14 | 07/08/14 11:56 | EPA 200.8 |   |
| Arsenic             | ND             | 0.61    | 3.0     | "    | " | "       | "        | "              | "         |   |
| <b>Boron</b>        | <b>0.33</b>    | 0.013   | 0.066   | mg/L | " | B4G0236 | 07/02/14 | 07/08/14 12:09 | EPA 200.7 |   |
| Beryllium           | ND             | 0.50    | 3.0     | µg/L | " | B4G0226 | 07/02/14 | 07/08/14 11:56 | EPA 200.8 |   |
| <b>Cadmium</b>      | <b>5.3</b>     | 0.18    | 2.0     | "    | " | "       | "        | "              | "         |   |
| <b>Chromium</b>     | <b>1.9</b>     | 0.26    | 3.0     | "    | " | "       | "        | "              | "         | J |
| Hexavalent Chromium | ND             | 0.00027 | 0.0020  | mg/L | " | B4G0228 | 07/02/14 | 07/09/14 19:26 | EPA 218.6 |   |
| <b>Copper</b>       | <b>24</b>      | 0.36    | 10      | µg/L | " | B4G0226 | 07/02/14 | 07/08/14 11:56 | EPA 200.8 |   |
| <b>Mercury</b>      | <b>0.00003</b> | 0.00002 | 0.00030 | mg/L | " | B4G0237 | 07/02/14 | 07/03/14 13:47 | EPA 245.1 | J |
| <b>Nickel</b>       | <b>1.8</b>     | 0.46    | 5.0     | µg/L | " | B4G0226 | 07/02/14 | 07/08/14 11:56 | EPA 200.8 | J |
| <b>Lead</b>         | <b>12</b>      | 0.18    | 2.0     | "    | " | "       | "        | "              | "         |   |
| <b>Antimony</b>     | <b>5.8</b>     | 0.28    | 3.0     | "    | " | "       | "        | "              | "         |   |
| Selenium            | ND             | 0.63    | 6.5     | "    | " | "       | "        | "              | "         |   |
| Thallium            | ND             | 0.17    | 2.0     | "    | " | "       | "        | "              | "         |   |
| <b>Zinc</b>         | <b>38</b>      | 2.8     | 14      | "    | " | "       | "        | "              | "         |   |

**BP-2 (1407011-02) Liquid Sampled: 07/01/14 11:00 Received: 07/01/14 13:55**

|                     |                |         |         |      |   |         |          |                |           |   |
|---------------------|----------------|---------|---------|------|---|---------|----------|----------------|-----------|---|
| Silver              | ND             | 0.14    | 1.5     | µg/L | 1 | B4G0226 | 07/02/14 | 07/08/14 11:56 | EPA 200.8 |   |
| Arsenic             | ND             | 0.61    | 3.0     | "    | " | "       | "        | "              | "         |   |
| <b>Boron</b>        | <b>0.43</b>    | 0.013   | 0.066   | mg/L | " | B4G0236 | 07/02/14 | 07/08/14 12:09 | EPA 200.7 |   |
| <b>Beryllium</b>    | <b>2.2</b>     | 0.50    | 3.0     | µg/L | " | B4G0226 | 07/02/14 | 07/08/14 11:56 | EPA 200.8 | J |
| Cadmium             | ND             | 0.18    | 2.0     | "    | " | "       | "        | "              | "         |   |
| <b>Chromium</b>     | <b>230</b>     | 0.26    | 3.0     | "    | " | "       | "        | "              | "         |   |
| Hexavalent Chromium | ND             | 0.00027 | 0.0020  | mg/L | " | B4G0228 | 07/02/14 | 07/09/14 19:26 | EPA 218.6 |   |
| <b>Copper</b>       | <b>240</b>     | 0.36    | 10      | µg/L | " | B4G0226 | 07/02/14 | 07/08/14 11:56 | EPA 200.8 |   |
| <b>Mercury</b>      | <b>0.00027</b> | 0.00002 | 0.00030 | mg/L | " | B4G0237 | 07/02/14 | 07/03/14 13:47 | EPA 245.1 | J |
| <b>Nickel</b>       | <b>180</b>     | 0.46    | 5.0     | µg/L | " | B4G0226 | 07/02/14 | 07/08/14 11:56 | EPA 200.8 |   |
| <b>Lead</b>         | <b>97</b>      | 0.18    | 2.0     | "    | " | "       | "        | "              | "         |   |
| <b>Antimony</b>     | <b>10</b>      | 0.28    | 3.0     | "    | " | "       | "        | "              | "         |   |
| Selenium            | ND             | 0.63    | 6.5     | "    | " | "       | "        | "              | "         |   |
| Thallium            | ND             | 0.17    | 2.0     | "    | " | "       | "        | "              | "         |   |
| <b>Zinc</b>         | <b>510</b>     | 2.8     | 14      | "    | " | "       | "        | "              | "         |   |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals (Dissolved) by EPA 200 Series Methods**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result     | MDL     | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|--|------------|---------|-----------|--|-------|----------|---------|----------|----------------|-----------|-------|
|  |            |         | Limit     |  |       |          |         |          |                |           |       |
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |            |         |           |  |       |          |         |          |                |           |       |
| Silver   | ND         | 0.14    | 1.5       |  | µg/L  | 1        | B4G0227 | 07/02/14 | 07/08/14 11:45 | EPA 200.8 |       |
| Arsenic  | ND         | 0.61    | 3.0       |  | "     | "        | "       | "        | "              | "         |       |
| Beryllium  | ND         | 0.50    | 3.0       |  | "     | "        | "       | "        | "              | "         |       |
| <b>Cadmium</b>   | <b>1.8</b> | 0.18    | 2.0       |  | "     | "        | "       | "        | "              | "         | J     |
| <b>Chromium</b>  | <b>1.1</b> | 0.26    | 3.0       |  | "     | "        | "       | "        | "              | "         | J     |
| Hexavalent Chromium  | ND         | 0.00027 | 0.0020    |  | mg/L  | "        | B4G0229 | 07/02/14 | 07/09/14 19:25 | EPA 218.6 |       |
| <b>Copper</b>  | <b>15</b>  | 0.36    | 10        |  | µg/L  | "        | B4G0227 | 07/02/14 | 07/08/14 11:45 | EPA 200.8 |       |
| Mercury  | ND         | 0.00015 | 0.00073   |  | mg/L  | "        | B4G0232 | 07/02/14 | 07/03/14 13:46 | EPA 245.1 |       |
| <b>Nickel</b>  | <b>1.5</b> | 0.46    | 5.0       |  | µg/L  | "        | B4G0227 | 07/02/14 | 07/08/14 11:45 | EPA 200.8 | J     |
| <b>Lead</b>  | <b>7.2</b> | 0.18    | 2.0       |  | "     | "        | "       | "        | "              | "         |       |
| <b>Antimony</b>  | <b>3.0</b> | 0.28    | 3.0       |  | "     | "        | "       | "        | "              | "         |       |
| Selenium   | ND         | 0.63    | 6.5       |  | "     | "        | "       | "        | "              | "         |       |
| Thallium   | ND         | 0.17    | 2.0       |  | "     | "        | "       | "        | "              | "         |       |
| <b>Zinc</b>  | <b>37</b>  | 2.8     | 14        |  | "     | "        | "       | "        | "              | "         |       |

|  |                |         |         |  |      |   |         |          |                |           |   |
|--|----------------|---------|---------|--|------|---|---------|----------|----------------|-----------|---|
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |                |         |         |  |      |   |         |          |                |           |   |
| Silver   | ND             | 0.14    | 1.5     |  | µg/L | 1 | B4G0227 | 07/02/14 | 07/08/14 11:45 | EPA 200.8 |   |
| Arsenic  | ND             | 0.61    | 3.0     |  | "    | " | "       | "        | "              | "         |   |
| Beryllium  | ND             | 0.50    | 3.0     |  | "    | " | "       | "        | "              | "         |   |
| <b>Cadmium</b>   | <b>1.7</b>     | 0.18    | 2.0     |  | "    | " | "       | "        | "              | "         | J |
| <b>Chromium</b>  | <b>1.4</b>     | 0.26    | 3.0     |  | "    | " | "       | "        | "              | "         | J |
| Hexavalent Chromium  | ND             | 0.00027 | 0.0020  |  | mg/L | " | B4G0229 | 07/02/14 | 07/09/14 19:25 | EPA 218.6 |   |
| <b>Copper</b>  | <b>5.5</b>     | 0.36    | 10      |  | µg/L | " | B4G0227 | 07/02/14 | 07/08/14 11:45 | EPA 200.8 | J |
| <b>Mercury</b>   | <b>0.00026</b> | 0.00015 | 0.00073 |  | mg/L | " | B4G0232 | 07/02/14 | 07/03/14 13:46 | EPA 245.1 | J |
| <b>Nickel</b>  | <b>1.9</b>     | 0.46    | 5.0     |  | µg/L | " | B4G0227 | 07/02/14 | 07/08/14 11:45 | EPA 200.8 | J |
| <b>Lead</b>  | <b>2.4</b>     | 0.18    | 2.0     |  | "    | " | "       | "        | "              | "         |   |
| <b>Antimony</b>  | <b>7.8</b>     | 0.28    | 3.0     |  | "    | " | "       | "        | "              | "         |   |
| Selenium   | ND             | 0.63    | 6.5     |  | "    | " | "       | "        | "              | "         |   |
| Thallium   | ND             | 0.17    | 2.0     |  | "    | " | "       | "        | "              | "         |   |
| <b>Zinc</b>  | <b>14</b>      | 2.8     | 14      |  | "    | " | "       | "        | "              | "         |   |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

**Reported:**  
 07/21/14 09:30

**Trivalent Chromium by Calculation**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result      | MDL    | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method      | Notes |
|--|-------------|--------|-----------------|-------|----------|---------|----------|----------------|-------------|-------|
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |             |        |                 |       |          |         |          |                |             |       |
| Trivalent Chromium   | ND          | 0.0012 | 0.010           | mg/L  | 1        | B4G0230 | 07/02/14 | 07/09/14 19:26 | Calculation |       |
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |             |        |                 |       |          |         |          |                |             |       |
| <b>Trivalent Chromium</b>  | <b>0.23</b> | 0.0012 | 0.010           | mg/L  | 1        | B4G0230 | 07/02/14 | 07/09/14 19:26 | Calculation |       |

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Ninyo & Moore - Irvine  
475 Goddard Suite 200  
Irvine CA, 92618

Project: NPDES Permit  
Project Number: [none]  
Project Manager: Michael Cushner

Reported:  
07/21/14 09:30

**Trivalent Chromium by Calculation (Dissolved)**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL    | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method      | Notes |
|--|--------|--------|-----------------|-------|----------|---------|----------|----------------|-------------|-------|
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |        |        |                 |       |          |         |          |                |             |       |
| Trivalent Chromium   | ND     | 0.0012 | 0.010           | mg/L  | 1        | B4G0231 | 07/02/14 | 07/09/14 19:27 | Calculation |       |
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |        |        |                 |       |          |         |          |                |             |       |
| Trivalent Chromium   | ND     | 0.0012 | 0.010           | mg/L  | 1        | B4G0231 | 07/02/14 | 07/09/14 19:27 | Calculation |       |

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 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

**Reported:**  
 07/21/14 09:30

**Total Recoverable Petroleum Hydrocarbons (TRPH) by IR  
 Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL  | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|--|--------|------|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |        |      |                 |       |          |         |          |                |           |       |
| TRPH   | ND     | 0.10 | 1.0             | mg/L  | 1        | B4G0850 | 07/08/14 | 07/08/14 10:36 | EPA 418.1 |       |
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |        |      |                 |       |          |         |          |                |           |       |
| TRPH   | ND     | 0.10 | 1.0             | mg/L  | 1        | B4G0850 | 07/08/14 | 07/08/14 10:36 | EPA 418.1 |       |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Organochlorine Pesticides and PCBs by EPA Method 608**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL    | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed       | Method  | Notes |
|--|--------|--------|-----------|--|-------|----------|---------|----------|----------------|---------|-------|
|  |        |        | Limit     |  |       |          |         |          |                |         |       |
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |        |        |           |  |       |          |         |          |                |         |       |
| Aldrin   | ND     | 0.0020 | 0.075     |  | µg/L  | 1        | B4G0220 | 07/02/14 | 07/08/14 08:51 | EPA 608 |       |
| HCH-alpha  | ND     | 0.0020 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| HCH-beta   | ND     | 0.0040 | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| HCH-delta  | ND     | 0.0030 | 0.10      |  | "     | "        | "       | "        | "              | "       |       |
| HCH-gamma (Lindane)  | ND     | 0.0050 | 0.20      |  | "     | "        | "       | "        | "              | "       |       |
| Chlordane  | ND     | 0.050  | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| 4,4'-DDD   | ND     | 0.0030 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| 4,4'-DDE   | ND     | 0.0030 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| 4,4'-DDT   | ND     | 0.0070 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| Dieldrin   | ND     | 0.0020 | 0.020     |  | "     | "        | "       | "        | "              | "       |       |
| Endosulfan I   | ND     | 0.020  | 0.020     |  | "     | "        | "       | "        | "              | "       |       |
| Endosulfan II  | ND     | 0.0040 | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| Endosulfan sulfate   | ND     | 0.010  | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| Endrin   | ND     | 0.0020 | 0.10      |  | "     | "        | "       | "        | "              | "       |       |
| Endrin aldehyde  | ND     | 0.010  | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| Heptachlor   | ND     | 0.0020 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| Heptachlor epoxide   | ND     | 0.0030 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| Toxaphene  | ND     | 0.50   | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1016   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1221   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1232   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1242   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1248   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1254   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1260   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| <i>Surrogate: Decachlorobiphenyl</i>   |        | 60.8 % | 42-147    |  |       |          | "       | "        | "              | "       |       |
| <i>Surrogate: Tetrachloro-meta-xylene</i>  |        | 65.2 % | 42-147    |  |       |          | "       | "        | "              | "       |       |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Organochlorine Pesticides and PCBs by EPA Method 608**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL    | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed       | Method  | Notes |
|--|--------|--------|-----------|--|-------|----------|---------|----------|----------------|---------|-------|
|  |        |        | Limit     |  |       |          |         |          |                |         |       |
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |        |        |           |  |       |          |         |          |                |         |       |
| Aldrin   | ND     | 0.0020 | 0.075     |  | µg/L  | 1        | B4G0220 | 07/02/14 | 07/08/14 08:51 | EPA 608 |       |
| HCH-alpha  | ND     | 0.0020 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| HCH-beta   | ND     | 0.0040 | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| HCH-delta  | ND     | 0.0030 | 0.10      |  | "     | "        | "       | "        | "              | "       |       |
| HCH-gamma (Lindane)  | ND     | 0.0050 | 0.20      |  | "     | "        | "       | "        | "              | "       |       |
| Chlordane  | ND     | 0.050  | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| 4,4'-DDD   | ND     | 0.0030 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| 4,4'-DDE   | ND     | 0.0030 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| 4,4'-DDT   | ND     | 0.0070 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| Dieldrin   | ND     | 0.0020 | 0.020     |  | "     | "        | "       | "        | "              | "       |       |
| Endosulfan I   | ND     | 0.020  | 0.020     |  | "     | "        | "       | "        | "              | "       |       |
| Endosulfan II  | ND     | 0.0040 | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| Endosulfan sulfate   | ND     | 0.010  | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| Endrin   | ND     | 0.0020 | 0.10      |  | "     | "        | "       | "        | "              | "       |       |
| Endrin aldehyde  | ND     | 0.010  | 0.050     |  | "     | "        | "       | "        | "              | "       |       |
| Heptachlor   | ND     | 0.0020 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| Heptachlor epoxide   | ND     | 0.0030 | 0.010     |  | "     | "        | "       | "        | "              | "       |       |
| Toxaphene  | ND     | 0.50   | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1016   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1221   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1232   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1242   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1248   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1254   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| PCB-1260   | ND     | 0.40   | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| Surrogate: Decachlorobiphenyl  |        | 58.0 % | 42-147    |  |       |          | "       | "        | "              | "       |       |
| Surrogate: Tetrachloro-meta-xylene   |        | 54.0 % | 42-147    |  |       |          | "       | "        | "              | "       |       |

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 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Volatile Organics by EPA Method 624**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL   | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed       | Method  | Notes |
|--|--------|-------|-----------|--|-------|----------|---------|----------|----------------|---------|-------|
|  |        |       | Limit     |  |       |          |         |          |                |         |       |
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |        |       |           |  |       |          |         |          |                |         |       |
| Acetone  | ND     | 5.6   | 10        |  | µg/L  | 1        | B4G0218 | 07/02/14 | 07/02/14 15:26 | EPA 624 |       |
| Acrolein   | ND     | 2.6   | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Acrylonitrile  | ND     | 1.5   | 2.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzene  | ND     | 0.47  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bromobenzene   | ND     | 0.42  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bromodichloromethane   | ND     | 0.31  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bromoform  | ND     | 0.50  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bromomethane   | ND     | 0.67  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2-Butanone   | ND     | 1.8   | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Carbon tetrachloride   | ND     | 0.38  | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| Chlorobenzene  | ND     | 0.31  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Chloroethane   | ND     | 0.55  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2-Chloroethylvinyl ether   | ND     | 0.28  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Chloroform   | ND     | 0.36  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Chloromethane  | ND     | 0.47  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Dibromochloromethane   | ND     | 0.36  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,2-Dichlorobenzene  | ND     | 0.36  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,3-Dichlorobenzene  | ND     | 0.20  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,4-Dichlorobenzene  | ND     | 0.36  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,1-Dichloroethane   | ND     | 0.29  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,2-Dichloroethane   | ND     | 0.25  | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| 1,1-Dichloroethene   | ND     | 0.070 | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| cis-1,2-Dichloroethene   | ND     | 0.49  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| trans-1,2-Dichloroethene   | ND     | 0.37  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,2-Dichloropropane  | ND     | 0.15  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,1-Dichloropropene  | ND     | 0.33  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| cis-1,3-Dichloropropene  | ND     | 0.31  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| trans-1,3-Dichloropropene  | ND     | 0.32  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Ethylbenzene   | ND     | 0.38  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Methylene chloride   | ND     | 0.43  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,1,2,2-Tetrachloroethane  | ND     | 0.42  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Tetrachloroethene  | ND     | 0.49  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Toluene  | ND     | 0.48  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,1,1-Trichloroethane  | ND     | 0.23  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,1,2-Trichloroethane  | ND     | 0.34  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Trichloroethene  | ND     | 0.31  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Trichlorofluoromethane   | ND     | 0.19  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Vinyl chloride   | ND     | 0.47  | 0.50      |  | "     | "        | "       | "        | "              | "       |       |
| m,p-Xylene   | ND     | 0.62  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Volatile Organics by EPA Method 624**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | MDL | Reporting |       | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-----------|-------|----------|-------|----------|----------|--------|-------|
|         |        |     | Limit     | Units |          |       |          |          |        |       |

**BP-1 (1407011-01) Liquid Sampled: 07/01/14 09:00 Received: 07/01/14 13:55**

|  |    |        |        |      |   |         |          |                |         |  |
|--|----|--------|--------|------|---|---------|----------|----------------|---------|--|
| o-Xylene                               | ND | 0.30   | 1.0    | µg/L | 1 | B4G0218 | 07/02/14 | 07/02/14 15:26 | EPA 624 |  |
| 1,2-Dibromoethane (EDB)                | ND | 0.38   | 1.0    | "    | " | "       | "        | "              | "       |  |
| 1,2,4-Trichlorobenzene                 | ND | 0.22   | 1.0    | "    | " | "       | "        | "              | "       |  |
| Methyl tert-butyl ether                | ND | 0.42   | 1.0    | "    | " | "       | "        | "              | "       |  |
| Di-isopropyl ether                     | ND | 0.24   | 1.0    | "    | " | "       | "        | "              | "       |  |
| Ethyl tert-butyl ether                 | ND | 0.15   | 1.0    | "    | " | "       | "        | "              | "       |  |
| Tert-amyl methyl ether                 | ND | 0.16   | 1.0    | "    | " | "       | "        | "              | "       |  |
| Tert-butyl alcohol                     | ND | 2.0    | 5.0    | "    | " | "       | "        | "              | "       |  |
| <i>Surrogate: Dibromofluoromethane</i> |    | 112 %  | 86-118 |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: Toluene-d8</i>           |    | 99.0 % | 88-110 |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: 4-Bromofluorobenzene</i> |    | 99.6 % | 86-115 |      |   | "       | "        | "              | "       |  |

**BP-2 (1407011-02) Liquid Sampled: 07/01/14 11:00 Received: 07/01/14 13:55**

|                          |    |       |      |      |   |         |          |                |         |  |
|--------------------------|----|-------|------|------|---|---------|----------|----------------|---------|--|
| Acetone                  | ND | 5.6   | 10   | µg/L | 1 | B4G0218 | 07/02/14 | 07/02/14 16:02 | EPA 624 |  |
| Acrolein                 | ND | 2.6   | 5.0  | "    | " | "       | "        | "              | "       |  |
| Acrylonitrile            | ND | 1.5   | 2.0  | "    | " | "       | "        | "              | "       |  |
| Benzene                  | ND | 0.47  | 1.0  | "    | " | "       | "        | "              | "       |  |
| Bromobenzene             | ND | 0.42  | 1.0  | "    | " | "       | "        | "              | "       |  |
| Bromodichloromethane     | ND | 0.31  | 1.0  | "    | " | "       | "        | "              | "       |  |
| Bromoform                | ND | 0.50  | 1.0  | "    | " | "       | "        | "              | "       |  |
| Bromomethane             | ND | 0.67  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 2-Butanone               | ND | 1.8   | 5.0  | "    | " | "       | "        | "              | "       |  |
| Carbon tetrachloride     | ND | 0.38  | 0.50 | "    | " | "       | "        | "              | "       |  |
| Chlorobenzene            | ND | 0.31  | 1.0  | "    | " | "       | "        | "              | "       |  |
| Chloroethane             | ND | 0.55  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 2-Chloroethylvinyl ether | ND | 0.28  | 1.0  | "    | " | "       | "        | "              | "       |  |
| Chloroform               | ND | 0.36  | 1.0  | "    | " | "       | "        | "              | "       |  |
| Chloromethane            | ND | 0.47  | 1.0  | "    | " | "       | "        | "              | "       |  |
| Dibromochloromethane     | ND | 0.36  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 1,2-Dichlorobenzene      | ND | 0.36  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 1,3-Dichlorobenzene      | ND | 0.20  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 1,4-Dichlorobenzene      | ND | 0.36  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 1,1-Dichloroethane       | ND | 0.29  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 1,2-Dichloroethane       | ND | 0.25  | 0.50 | "    | " | "       | "        | "              | "       |  |
| 1,1-Dichloroethene       | ND | 0.070 | 1.0  | "    | " | "       | "        | "              | "       |  |
| cis-1,2-Dichloroethene   | ND | 0.49  | 1.0  | "    | " | "       | "        | "              | "       |  |
| trans-1,2-Dichloroethene | ND | 0.37  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 1,2-Dichloropropane      | ND | 0.15  | 1.0  | "    | " | "       | "        | "              | "       |  |
| 1,1-Dichloropropene      | ND | 0.33  | 1.0  | "    | " | "       | "        | "              | "       |  |

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 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Volatile Organics by EPA Method 624**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | MDL | Reporting |  | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-----------|--|-------|----------|-------|----------|----------|--------|-------|
|         |        |     | Limit     |  |       |          |       |          |          |        |       |

**BP-2 (1407011-02) Liquid Sampled: 07/01/14 11:00 Received: 07/01/14 13:55**

|                                 |    |       |        |      |   |         |          |                |         |  |
|---------------------------------|----|-------|--------|------|---|---------|----------|----------------|---------|--|
| cis-1,3-Dichloropropene         | ND | 0.31  | 1.0    | µg/L | 1 | B4G0218 | 07/02/14 | 07/02/14 16:02 | EPA 624 |  |
| trans-1,3-Dichloropropene       | ND | 0.32  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Ethylbenzene                    | ND | 0.38  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Methylene chloride              | ND | 0.43  | 1.0    | "    | " | "       | "        | "              | "       |  |
| 1,1,2,2-Tetrachloroethane       | ND | 0.42  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Tetrachloroethene               | ND | 0.49  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Toluene                         | ND | 0.48  | 1.0    | "    | " | "       | "        | "              | "       |  |
| 1,1,1-Trichloroethane           | ND | 0.23  | 1.0    | "    | " | "       | "        | "              | "       |  |
| 1,1,2-Trichloroethane           | ND | 0.34  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Trichloroethene                 | ND | 0.31  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Trichlorofluoromethane          | ND | 0.19  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Vinyl chloride                  | ND | 0.47  | 0.50   | "    | " | "       | "        | "              | "       |  |
| m,p-Xylene                      | ND | 0.62  | 1.0    | "    | " | "       | "        | "              | "       |  |
| o-Xylene                        | ND | 0.30  | 1.0    | "    | " | "       | "        | "              | "       |  |
| 1,2-Dibromoethane (EDB)         | ND | 0.38  | 1.0    | "    | " | "       | "        | "              | "       |  |
| 1,2,4-Trichlorobenzene          | ND | 0.22  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Methyl tert-butyl ether         | ND | 0.42  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Di-isopropyl ether              | ND | 0.24  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Ethyl tert-butyl ether          | ND | 0.15  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Tert-amyl methyl ether          | ND | 0.16  | 1.0    | "    | " | "       | "        | "              | "       |  |
| Tert-butyl alcohol              | ND | 2.0   | 5.0    | "    | " | "       | "        | "              | "       |  |
| Surrogate: Dibromofluoromethane |    | 110 % | 86-118 |      |   | "       | "        | "              | "       |  |
| Surrogate: Toluene-d8           |    | 101 % | 88-110 |      |   | "       | "        | "              | "       |  |
| Surrogate: 4-Bromofluorobenzene |    | 103 % | 86-115 |      |   | "       | "        | "              | "       |  |

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 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Semivolatile Organics by EPA Method 625**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL   | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed       | Method  | Notes |
|--|--------|-------|-----------|--|-------|----------|---------|----------|----------------|---------|-------|
|  |        |       | Limit     |  |       |          |         |          |                |         |       |
| <b>BP-1 (1407011-01) Liquid Sampled: 07/01/14 09:00 Received: 07/01/14 13:55</b> |        |       |           |  |       |          |         |          |                |         |       |
| Acenaphthene   | ND     | 0.16  | 5.0       |  | µg/L  | 1        | B4G0919 | 07/02/14 | 07/07/14 07:46 | EPA 625 |       |
| Acenaphthylene   | ND     | 0.16  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Anthracene   | ND     | 0.23  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzidine  | ND     | 5.0   | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (a) anthracene   | ND     | 0.16  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (b) fluoranthene   | ND     | 0.31  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (k) fluoranthene   | ND     | 0.31  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (a) pyrene   | ND     | 0.31  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (g,h,i) perylene   | ND     | 0.28  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Butyl benzyl phthalate   | ND     | 0.62  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bis(2-chloroethyl)ether  | ND     | 0.42  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bis(2-chloroethoxy)methane   | ND     | 0.27  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bis(2-ethylhexyl)phthalate   | ND     | 0.59  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bis(2-chloroisopropyl)ether  | ND     | 0.38  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 4-Bromophenyl phenyl ether   | ND     | 0.26  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2-Chlorophenol   | ND     | 0.27  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 4-Chloro-3-methylphenol  | ND     | 0.50  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2-Chloronaphthalene  | ND     | 0.090 | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 4-Chlorophenyl phenyl ether  | ND     | 0.33  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Chrysene   | ND     | 0.10  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Dibenz (a,h) anthracene  | ND     | 0.10  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,3-Dichlorobenzene  | ND     | 0.29  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,2-Dichlorobenzene  | ND     | 0.26  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,4-Dichlorobenzene  | ND     | 0.26  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 3,3'-Dichlorobenzidine   | ND     | 0.59  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,4-Dichlorophenol   | ND     | 1.0   | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Diethyl phthalate  | ND     | 0.57  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,4-Dimethylphenol   | ND     | 0.54  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Dimethyl phthalate   | ND     | 0.22  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Di-n-butyl phthalate   | ND     | 0.25  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,4-Dinitrophenol  | ND     | 1.0   | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,4-Dinitrotoluene   | ND     | 0.45  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,6-Dinitrotoluene   | ND     | 0.21  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Di-n-octyl phthalate   | ND     | 0.41  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,2-Diphenylhydrazine  | ND     | 1.0   | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Fluoranthene   | ND     | 0.13  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Fluorene   | ND     | 0.14  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Hexachlorobenzene  | ND     | 0.35  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Hexachlorobutadiene  | ND     | 0.56  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Semivolatile Organics by EPA Method 625**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | MDL | Reporting |  | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-----------|--|-------|----------|-------|----------|----------|--------|-------|
|         |        |     | Limit     |  |       |          |       |          |          |        |       |

**BP-1 (1407011-01) Liquid**    **Sampled: 07/01/14 09:00**    **Received: 07/01/14 13:55**

|  |    |        |        |  |      |   |         |          |                |         |  |
|--|----|--------|--------|--|------|---|---------|----------|----------------|---------|--|
| Hexachlorocyclopentadiene              | ND | 5.0    | 5.0    |  | µg/L | 1 | B4G0919 | 07/02/14 | 07/07/14 07:46 | EPA 625 |  |
| Hexachloroethane                       | ND | 0.25   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| Indeno (1,2,3-cd) pyrene               | ND | 0.10   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| Isophorone                             | ND | 0.64   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| 2-Methyl-4,6-dinitrophenol             | ND | 5.0    | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| Naphthalene                            | ND | 0.17   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| Nitrobenzene                           | ND | 0.23   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| 2-Nitrophenol                          | ND | 0.46   | 1.0    |  | "    | " | "       | "        | "              | "       |  |
| 4-Nitrophenol                          | ND | 0.90   | 1.0    |  | "    | " | "       | "        | "              | "       |  |
| N-Nitrosodimethylamine                 | ND | 5.0    | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| Diphenylamine                          | ND | 0.12   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| N-Nitrosodi-n-propylamine              | ND | 0.58   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| Pentachlorophenol                      | ND | 1.0    | 1.0    |  | "    | " | "       | "        | "              | "       |  |
| Phenanthrene                           | ND | 0.14   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| Phenol                                 | ND | 0.36   | 1.0    |  | "    | " | "       | "        | "              | "       |  |
| Pyrene                                 | ND | 0.20   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| 1,2,4-Trichlorobenzene                 | ND | 0.30   | 5.0    |  | "    | " | "       | "        | "              | "       |  |
| 2,4,6-Trichlorophenol                  | ND | 1.0    | 1.0    |  | "    | " | "       | "        | "              | "       |  |
| <i>Surrogate: 2-Fluorophenol</i>       |    | 83.3 % | 25-121 |  |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: Phenol-d6</i>            |    | 76.7 % | 24-113 |  |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: Nitrobenzene-d5</i>      |    | 84.6 % | 23-120 |  |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: 2-Fluorobiphenyl</i>     |    | 93.2 % | 30-115 |  |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: 2,4,6-Tribromophenol</i> |    | 67.3 % | 19-122 |  |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: Terphenyl-d14</i>        |    | 82.6 % | 18-137 |  |      |   | "       | "        | "              | "       |  |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Semivolatile Organics by EPA Method 625**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL   | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed       | Method  | Notes |
|--|--------|-------|-----------|--|-------|----------|---------|----------|----------------|---------|-------|
|  |        |       | Limit     |  |       |          |         |          |                |         |       |
| <b>BP-2 (1407011-02) Liquid Sampled: 07/01/14 11:00 Received: 07/01/14 13:55</b> |        |       |           |  |       |          |         |          |                |         |       |
| Acenaphthene   | ND     | 0.16  | 5.0       |  | µg/L  | 1        | B4G0919 | 07/02/14 | 07/07/14 18:21 | EPA 625 |       |
| Acenaphthylene   | ND     | 0.16  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Anthracene   | ND     | 0.23  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzidine  | ND     | 5.0   | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (a) anthracene   | ND     | 0.16  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (b) fluoranthene   | ND     | 0.31  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (k) fluoranthene   | ND     | 0.31  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (a) pyrene   | ND     | 0.31  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Benzo (g,h,i) perylene   | ND     | 0.28  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Butyl benzyl phthalate   | ND     | 0.62  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bis(2-chloroethyl)ether  | ND     | 0.42  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bis(2-chloroethoxy)methane   | ND     | 0.27  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bis(2-ethylhexyl)phthalate   | ND     | 0.59  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Bis(2-chloroisopropyl)ether  | ND     | 0.38  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 4-Bromophenyl phenyl ether   | ND     | 0.26  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2-Chlorophenol   | ND     | 0.27  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 4-Chloro-3-methylphenol  | ND     | 0.50  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2-Chloronaphthalene  | ND     | 0.090 | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 4-Chlorophenyl phenyl ether  | ND     | 0.33  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Chrysene   | ND     | 0.10  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Dibenz (a,h) anthracene  | ND     | 0.10  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,3-Dichlorobenzene  | ND     | 0.29  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,2-Dichlorobenzene  | ND     | 0.26  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,4-Dichlorobenzene  | ND     | 0.26  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 3,3'-Dichlorobenzidine   | ND     | 0.59  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,4-Dichlorophenol   | ND     | 1.0   | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Diethyl phthalate  | ND     | 0.57  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,4-Dimethylphenol   | ND     | 0.54  | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| Dimethyl phthalate   | ND     | 0.22  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Di-n-butyl phthalate   | ND     | 0.25  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,4-Dinitrophenol  | ND     | 1.0   | 1.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,4-Dinitrotoluene   | ND     | 0.45  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 2,6-Dinitrotoluene   | ND     | 0.21  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Di-n-octyl phthalate   | ND     | 0.41  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| 1,2-Diphenylhydrazine  | ND     | 1.0   | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Fluoranthene   | ND     | 0.13  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Fluorene   | ND     | 0.14  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Hexachlorobenzene  | ND     | 0.35  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |
| Hexachlorobutadiene  | ND     | 0.56  | 5.0       |  | "     | "        | "       | "        | "              | "       |       |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Semivolatile Organics by EPA Method 625**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | MDL | Reporting |  | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-----------|--|-------|----------|-------|----------|----------|--------|-------|
|         |        |     | Limit     |  |       |          |       |          |          |        |       |

**BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55**

|  |    |        |        |      |   |         |          |                |         |  |
|--|----|--------|--------|------|---|---------|----------|----------------|---------|--|
| Hexachlorocyclopentadiene              | ND | 5.0    | 5.0    | µg/L | 1 | B4G0919 | 07/02/14 | 07/07/14 18:21 | EPA 625 |  |
| Hexachloroethane                       | ND | 0.25   | 5.0    | "    | " | "       | "        | "              | "       |  |
| Indeno (1,2,3-cd) pyrene               | ND | 0.10   | 5.0    | "    | " | "       | "        | "              | "       |  |
| Isophorone                             | ND | 0.64   | 5.0    | "    | " | "       | "        | "              | "       |  |
| 2-Methyl-4,6-dinitrophenol             | ND | 5.0    | 5.0    | "    | " | "       | "        | "              | "       |  |
| Naphthalene                            | ND | 0.17   | 5.0    | "    | " | "       | "        | "              | "       |  |
| Nitrobenzene                           | ND | 0.23   | 5.0    | "    | " | "       | "        | "              | "       |  |
| 2-Nitrophenol                          | ND | 0.46   | 1.0    | "    | " | "       | "        | "              | "       |  |
| 4-Nitrophenol                          | ND | 0.90   | 1.0    | "    | " | "       | "        | "              | "       |  |
| N-Nitrosodimethylamine                 | ND | 5.0    | 5.0    | "    | " | "       | "        | "              | "       |  |
| Diphenylamine                          | ND | 0.12   | 5.0    | "    | " | "       | "        | "              | "       |  |
| N-Nitrosodi-n-propylamine              | ND | 0.58   | 5.0    | "    | " | "       | "        | "              | "       |  |
| Pentachlorophenol                      | ND | 1.0    | 1.0    | "    | " | "       | "        | "              | "       |  |
| Phenanthrene                           | ND | 0.14   | 5.0    | "    | " | "       | "        | "              | "       |  |
| Phenol                                 | ND | 0.36   | 1.0    | "    | " | "       | "        | "              | "       |  |
| Pyrene                                 | ND | 0.20   | 5.0    | "    | " | "       | "        | "              | "       |  |
| 1,2,4-Trichlorobenzene                 | ND | 0.30   | 5.0    | "    | " | "       | "        | "              | "       |  |
| 2,4,6-Trichlorophenol                  | ND | 1.0    | 1.0    | "    | " | "       | "        | "              | "       |  |
| <i>Surrogate: 2-Fluorophenol</i>       |    | 83.3 % | 25-121 |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: Phenol-d6</i>            |    | 85.3 % | 24-113 |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: Nitrobenzene-d5</i>      |    | 87.9 % | 23-120 |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: 2-Fluorobiphenyl</i>     |    | 90.4 % | 30-115 |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: 2,4,6-Tribromophenol</i> |    | 75.3 % | 19-122 |      |   | "       | "        | "              | "       |  |
| <i>Surrogate: Terphenyl-d14</i>        |    | 85.4 % | 18-137 |      |   | "       | "        | "              | "       |  |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Methanol by Headspace GC-FID**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|--|--------|-----|-----------|--|-------|----------|---------|----------|----------------|-----------|-------|
|  |        |     | Limit     |  |       |          |         |          |                |           |       |
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |        |     |           |  |       |          |         |          |                |           |       |
| Methanol   | ND     | 1.0 | 1.0       |  | mg/L  | 1        | B4G0852 | 07/09/14 | 07/09/14 13:47 | EPA 8015B |       |
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |        |     |           |  |       |          |         |          |                |           |       |
| Methanol   | ND     | 1.0 | 1.0       |  | mg/L  | 1        | B4G0852 | 07/09/14 | 07/09/14 13:47 | EPA 8015B |       |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID**  
**Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|--|--------|-----|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |        |     |                 |       |          |         |          |                |           |       |
| Gasoline Range Hydrocarbons (C4-C12)   | ND     | 14  | 50              | µg/L  | 1        | B4G0219 | 07/02/14 | 07/02/14 12:45 | EPA 8015B |       |
| Surrogate: <i>a,a,a-Trifluorotoluene</i>   | 85.5 % |     | 70-125          |       |          | "       | "        | "              | "         |       |
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |        |     |                 |       |          |         |          |                |           |       |
| Gasoline Range Hydrocarbons (C4-C12)   | ND     | 14  | 50              | µg/L  | 1        | B4G0219 | 07/02/14 | 07/02/14 12:45 | EPA 8015B |       |
| Surrogate: <i>a,a,a-Trifluorotoluene</i>   | 86.0 % |     | 70-125          |       |          | "       | "        | "              | "         |       |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Total Petroleum Hydrocarbons (TPH) by GC/FID  
 Sierra Analytical Labs, Inc.**

| Analyte  | Result | MDL    | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|--|--------|--------|-----------|--|-------|----------|---------|----------|----------------|-----------|-------|
|  |        |        | Limit     |  |       |          |         |          |                |           |       |
| <b>BP-1 (1407011-01) Liquid    Sampled: 07/01/14 09:00    Received: 07/01/14 13:55</b> |        |        |           |  |       |          |         |          |                |           |       |
| Diesel Range Organics (C10-C24)  | ND     | 0.050  | 0.050     |  | mg/L  | 1        | B4G0733 | 07/02/14 | 07/07/14 18:22 | EPA 8015B |       |
| Surrogate: <i>o</i> -Terphenyl   |        | 82.0 % | 60-175    |  |       |          | "       | "        | "              | "         |       |
| <b>BP-2 (1407011-02) Liquid    Sampled: 07/01/14 11:00    Received: 07/01/14 13:55</b> |        |        |           |  |       |          |         |          |                |           |       |
| Diesel Range Organics (C10-C24)  | ND     | 0.050  | 0.050     |  | mg/L  | 1        | B4G0733 | 07/02/14 | 07/07/14 18:33 | EPA 8015B |       |
| Surrogate: <i>o</i> -Terphenyl   |        | 87.6 % | 60-175    |  |       |          | "       | "        | "              | "         |       |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Ethanol by EPA 8260B (SIM- Selective Ion Mode)**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | MDL | Reporting |  | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----|-----------|--|-------|----------|-------|----------|----------|--------|-------|
|         |        |     | Limit     |  |       |          |       |          |          |        |       |

**BP-1 (1407011-01) Liquid Sampled: 07/01/14 09:00 Received: 07/01/14 13:55**

|                                 |    |        |        |      |   |         |          |                |           |  |  |
|---------------------------------|----|--------|--------|------|---|---------|----------|----------------|-----------|--|--|
| Ethanol                         | ND | 50     | 50     | µg/L | 1 | B4G0218 | 07/02/14 | 07/02/14 15:26 | EPA 8260B |  |  |
| Surrogate: Dibromofluoromethane |    | 112 %  | 86-118 |      |   | "       | "        | "              | "         |  |  |
| Surrogate: Toluene-d8           |    | 99.0 % | 88-110 |      |   | "       | "        | "              | "         |  |  |
| Surrogate: 4-Bromofluorobenzene |    | 99.6 % | 86-115 |      |   | "       | "        | "              | "         |  |  |

**BP-2 (1407011-02) Liquid Sampled: 07/01/14 11:00 Received: 07/01/14 13:55**

|                                 |    |       |        |      |   |         |          |                |           |  |  |
|---------------------------------|----|-------|--------|------|---|---------|----------|----------------|-----------|--|--|
| Ethanol                         | ND | 50    | 50     | µg/L | 1 | B4G0218 | 07/02/14 | 07/02/14 16:02 | EPA 8260B |  |  |
| Surrogate: Dibromofluoromethane |    | 110 % | 86-118 |      |   | "       | "        | "              | "         |  |  |
| Surrogate: Toluene-d8           |    | 101 % | 88-110 |      |   | "       | "        | "              | "         |  |  |
| Surrogate: 4-Bromofluorobenzene |    | 103 % | 86-115 |      |   | "       | "        | "              | "         |  |  |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals by EPA 200 Series Methods - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0226 - EPA 200 Series**

**Blank (B4G0226-BLK1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|           |       |     |      |  |  |  |  |  |  |   |
|-----------|-------|-----|------|--|--|--|--|--|--|---|
| Antimony  | 2.00  | 3.0 | µg/L |  |  |  |  |  |  | J |
| Arsenic   | ND    | 3.0 | "    |  |  |  |  |  |  |   |
| Beryllium | ND    | 3.0 | "    |  |  |  |  |  |  |   |
| Cadmium   | ND    | 2.0 | "    |  |  |  |  |  |  |   |
| Chromium  | ND    | 3.0 | "    |  |  |  |  |  |  |   |
| Copper    | ND    | 10  | "    |  |  |  |  |  |  |   |
| Lead      | 0.700 | 2.0 | "    |  |  |  |  |  |  | J |
| Nickel    | ND    | 5.0 | "    |  |  |  |  |  |  |   |
| Selenium  | 2.00  | 6.5 | "    |  |  |  |  |  |  | J |
| Silver    | ND    | 1.5 | "    |  |  |  |  |  |  |   |
| Thallium  | ND    | 2.0 | "    |  |  |  |  |  |  |   |
| Zinc      | ND    | 14  | "    |  |  |  |  |  |  |   |

**LCS (B4G0226-BS1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|           |      |     |      |     |      |        |  |  |  |  |
|-----------|------|-----|------|-----|------|--------|--|--|--|--|
| Antimony  | 101  | 3.0 | µg/L | 100 | 101  | 85-115 |  |  |  |  |
| Arsenic   | 99.8 | 3.0 | "    | 100 | 99.8 | 85-115 |  |  |  |  |
| Beryllium | 99.8 | 3.0 | "    | 100 | 99.8 | 78-115 |  |  |  |  |
| Cadmium   | 103  | 2.0 | "    | 100 | 103  | 85-115 |  |  |  |  |
| Chromium  | 97.4 | 3.0 | "    | 100 | 97.4 | 85-115 |  |  |  |  |
| Copper    | 98.9 | 10  | "    | 100 | 98.9 | 85-115 |  |  |  |  |
| Lead      | 107  | 2.0 | "    | 100 | 107  | 85-115 |  |  |  |  |
| Nickel    | 104  | 5.0 | "    | 100 | 104  | 85-115 |  |  |  |  |
| Selenium  | 95.3 | 6.5 | "    | 100 | 95.3 | 85-115 |  |  |  |  |
| Silver    | 100  | 1.5 | "    | 100 | 100  | 85-115 |  |  |  |  |
| Thallium  | 97.7 | 2.0 | "    | 100 | 97.7 | 85-115 |  |  |  |  |
| Zinc      | 113  | 14  | "    | 100 | 113  | 85-115 |  |  |  |  |

**Matrix Spike (B4G0226-MS1)**

Source: 1407011-01

Prepared: 07/02/14 Analyzed: 07/08/14

|           |      |     |      |     |     |      |        |  |  |  |
|-----------|------|-----|------|-----|-----|------|--------|--|--|--|
| Antimony  | 107  | 3.0 | µg/L | 100 | 5.8 | 101  | 70-130 |  |  |  |
| Arsenic   | 101  | 3.0 | "    | 100 | ND  | 101  | 70-130 |  |  |  |
| Beryllium | 99.2 | 3.0 | "    | 100 | ND  | 99.2 | 70-130 |  |  |  |
| Cadmium   | 99.0 | 2.0 | "    | 100 | 5.3 | 93.7 | 70-130 |  |  |  |
| Chromium  | 97.4 | 3.0 | "    | 100 | 1.9 | 95.5 | 75-130 |  |  |  |
| Copper    | 130  | 10  | "    | 100 | 24  | 106  | 70-130 |  |  |  |
| Lead      | 113  | 2.0 | "    | 100 | 12  | 101  | 70-130 |  |  |  |
| Nickel    | 102  | 5.0 | "    | 100 | 1.8 | 100  | 70-130 |  |  |  |
| Selenium  | 83.9 | 6.5 | "    | 100 | ND  | 83.9 | 70-130 |  |  |  |
| Silver    | 97.9 | 1.5 | "    | 100 | ND  | 97.9 | 70-130 |  |  |  |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals by EPA 200 Series Methods - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0226 - EPA 200 Series**

**Matrix Spike (B4G0226-MS1)**

Source: 1407011-01 Prepared: 07/02/14 Analyzed: 07/08/14

|          |      |     |      |     |    |      |        |  |  |  |
|----------|------|-----|------|-----|----|------|--------|--|--|--|
| Thallium | 87.2 | 2.0 | µg/L | 100 | ND | 87.2 | 70-130 |  |  |  |
| Zinc     | 139  | 14  | "    | 100 | 38 | 101  | 70-130 |  |  |  |

**Matrix Spike Dup (B4G0226-MSD1)**

Source: 1407011-01 Prepared: 07/02/14 Analyzed: 07/08/14

|           |      |     |      |     |     |      |        |       |    |  |
|-----------|------|-----|------|-----|-----|------|--------|-------|----|--|
| Antimony  | 106  | 3.0 | µg/L | 100 | 5.8 | 100  | 70-130 | 0.939 | 30 |  |
| Arsenic   | 100  | 3.0 | "    | 100 | ND  | 100  | 70-130 | 0.995 | 30 |  |
| Beryllium | 97.9 | 3.0 | "    | 100 | ND  | 97.9 | 70-130 | 1.32  | 30 |  |
| Cadmium   | 96.5 | 2.0 | "    | 100 | 5.3 | 91.2 | 70-130 | 2.56  | 30 |  |
| Chromium  | 96.2 | 3.0 | "    | 100 | 1.9 | 94.3 | 75-130 | 1.24  | 30 |  |
| Copper    | 129  | 10  | "    | 100 | 24  | 105  | 70-130 | 0.772 | 30 |  |
| Lead      | 110  | 2.0 | "    | 100 | 12  | 98.0 | 70-130 | 2.69  | 30 |  |
| Nickel    | 100  | 5.0 | "    | 100 | 1.8 | 98.2 | 70-130 | 1.98  | 30 |  |
| Selenium  | 82.8 | 6.5 | "    | 100 | ND  | 82.8 | 70-130 | 1.32  | 30 |  |
| Silver    | 96.8 | 1.5 | "    | 100 | ND  | 96.8 | 70-130 | 1.13  | 30 |  |
| Thallium  | 81.2 | 2.0 | "    | 100 | ND  | 81.2 | 70-130 | 7.13  | 30 |  |
| Zinc      | 136  | 14  | "    | 100 | 38  | 98.0 | 70-130 | 2.18  | 30 |  |

**Batch B4G0228 - EPA 200 Series**

**Blank (B4G0228-BLK1)**

Prepared: 07/02/14 Analyzed: 07/09/14

|                     |    |        |      |  |  |  |  |  |  |  |
|---------------------|----|--------|------|--|--|--|--|--|--|--|
| Hexavalent Chromium | ND | 0.0020 | mg/L |  |  |  |  |  |  |  |
|---------------------|----|--------|------|--|--|--|--|--|--|--|

**LCS (B4G0228-BS1)**

Prepared: 07/02/14 Analyzed: 07/09/14

|                     |         |        |      |         |  |     |        |  |  |  |
|---------------------|---------|--------|------|---------|--|-----|--------|--|--|--|
| Hexavalent Chromium | 0.00311 | 0.0020 | mg/L | 0.00300 |  | 104 | 85-115 |  |  |  |
|---------------------|---------|--------|------|---------|--|-----|--------|--|--|--|

**Matrix Spike (B4G0228-MS1)**

Source: 1407011-01 Prepared: 07/02/14 Analyzed: 07/09/14

|                     |         |        |      |         |    |      |        |  |  |  |
|---------------------|---------|--------|------|---------|----|------|--------|--|--|--|
| Hexavalent Chromium | 0.00286 | 0.0020 | mg/L | 0.00300 | ND | 95.3 | 80-120 |  |  |  |
|---------------------|---------|--------|------|---------|----|------|--------|--|--|--|

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals by EPA 200 Series Methods - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0228 - EPA 200 Series**

**Matrix Spike Dup (B4G0228-MSD1)**

Source: 1407011-01

Prepared: 07/02/14 Analyzed: 07/09/14

|                     |         |        |      |         |    |      |        |       |    |  |
|---------------------|---------|--------|------|---------|----|------|--------|-------|----|--|
| Hexavalent Chromium | 0.00288 | 0.0020 | mg/L | 0.00300 | ND | 96.0 | 80-120 | 0.697 | 20 |  |
|---------------------|---------|--------|------|---------|----|------|--------|-------|----|--|

**Batch B4G0236 - EPA 200 Series**

**Blank (B4G0236-BLK1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|       |    |       |      |  |  |  |  |  |  |  |
|-------|----|-------|------|--|--|--|--|--|--|--|
| Boron | ND | 0.066 | mg/L |  |  |  |  |  |  |  |
|-------|----|-------|------|--|--|--|--|--|--|--|

**LCS (B4G0236-BS1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|       |       |       |      |       |  |      |        |  |  |  |
|-------|-------|-------|------|-------|--|------|--------|--|--|--|
| Boron | 0.191 | 0.066 | mg/L | 0.200 |  | 95.5 | 80-121 |  |  |  |
|-------|-------|-------|------|-------|--|------|--------|--|--|--|

**Matrix Spike (B4G0236-MS1)**

Source: 1407014-02

Prepared: 07/02/14 Analyzed: 07/08/14

|       |       |       |      |       |      |      |        |  |  |  |
|-------|-------|-------|------|-------|------|------|--------|--|--|--|
| Boron | 0.431 | 0.066 | mg/L | 0.200 | 0.25 | 90.5 | 70-130 |  |  |  |
|-------|-------|-------|------|-------|------|------|--------|--|--|--|

**Matrix Spike Dup (B4G0236-MSD1)**

Source: 1407014-02

Prepared: 07/02/14 Analyzed: 07/08/14

|       |       |       |      |       |      |      |        |       |    |  |
|-------|-------|-------|------|-------|------|------|--------|-------|----|--|
| Boron | 0.434 | 0.066 | mg/L | 0.200 | 0.25 | 92.0 | 70-130 | 0.694 | 20 |  |
|-------|-------|-------|------|-------|------|------|--------|-------|----|--|

**Batch B4G0237 - EPA 200 Series**

**Blank (B4G0237-BLK1)**

Prepared: 07/02/14 Analyzed: 07/03/14

|         |         |         |      |  |  |  |  |  |  |   |
|---------|---------|---------|------|--|--|--|--|--|--|---|
| Mercury | 0.00004 | 0.00030 | mg/L |  |  |  |  |  |  | J |
|---------|---------|---------|------|--|--|--|--|--|--|---|

**LCS (B4G0237-BS1)**

Prepared: 07/02/14 Analyzed: 07/03/14

|         |         |         |      |         |  |      |        |  |  |  |
|---------|---------|---------|------|---------|--|------|--------|--|--|--|
| Mercury | 0.00091 | 0.00030 | mg/L | 0.00100 |  | 91.0 | 75-125 |  |  |  |
|---------|---------|---------|------|---------|--|------|--------|--|--|--|

**Matrix Spike (B4G0237-MS1)**

Source: 1407011-01

Prepared: 07/02/14 Analyzed: 07/03/14

|         |         |         |      |         |         |      |        |  |  |  |
|---------|---------|---------|------|---------|---------|------|--------|--|--|--|
| Mercury | 0.00083 | 0.00030 | mg/L | 0.00100 | 0.00003 | 80.0 | 75-125 |  |  |  |
|---------|---------|---------|------|---------|---------|------|--------|--|--|--|

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals by EPA 200 Series Methods - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0237 - EPA 200 Series**

**Matrix Spike Dup (B4G0237-MSD1)**

**Source: 1407011-01**

Prepared: 07/02/14

Analyzed: 07/03/14

|         |         |         |      |         |         |      |        |      |    |  |
|---------|---------|---------|------|---------|---------|------|--------|------|----|--|
| Mercury | 0.00089 | 0.00030 | mg/L | 0.00100 | 0.00003 | 86.0 | 75-125 | 6.98 | 20 |  |
|---------|---------|---------|------|---------|---------|------|--------|------|----|--|

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals (Dissolved) by EPA 200 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0227 - EPA 200 Series**

**Blank (B4G0227-BLK1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|           |       |     |      |  |  |  |  |  |  |   |
|-----------|-------|-----|------|--|--|--|--|--|--|---|
| Antimony  | 1.20  | 3.0 | µg/L |  |  |  |  |  |  | J |
| Arsenic   | ND    | 3.0 | "    |  |  |  |  |  |  |   |
| Beryllium | ND    | 3.0 | "    |  |  |  |  |  |  |   |
| Cadmium   | ND    | 2.0 | "    |  |  |  |  |  |  |   |
| Chromium  | ND    | 3.0 | "    |  |  |  |  |  |  |   |
| Copper    | ND    | 10  | "    |  |  |  |  |  |  |   |
| Lead      | 0.500 | 2.0 | "    |  |  |  |  |  |  | J |
| Nickel    | ND    | 5.0 | "    |  |  |  |  |  |  |   |
| Selenium  | ND    | 6.5 | "    |  |  |  |  |  |  |   |
| Silver    | ND    | 1.5 | "    |  |  |  |  |  |  |   |
| Thallium  | ND    | 2.0 | "    |  |  |  |  |  |  |   |
| Zinc      | ND    | 14  | "    |  |  |  |  |  |  |   |

**LCS (B4G0227-BS1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|           |     |     |      |     |  |     |        |  |  |  |
|-----------|-----|-----|------|-----|--|-----|--------|--|--|--|
| Antimony  | 110 | 3.0 | µg/L | 100 |  | 110 | 85-115 |  |  |  |
| Arsenic   | 107 | 3.0 | "    | 100 |  | 107 | 85-115 |  |  |  |
| Beryllium | 106 | 3.0 | "    | 100 |  | 106 | 85-115 |  |  |  |
| Cadmium   | 115 | 2.0 | "    | 100 |  | 115 | 85-115 |  |  |  |
| Chromium  | 110 | 3.0 | "    | 100 |  | 110 | 85-115 |  |  |  |
| Copper    | 111 | 10  | "    | 100 |  | 111 | 85-115 |  |  |  |
| Lead      | 111 | 2.0 | "    | 100 |  | 111 | 85-115 |  |  |  |
| Nickel    | 110 | 5.0 | "    | 100 |  | 110 | 85-115 |  |  |  |
| Selenium  | 104 | 6.5 | "    | 100 |  | 104 | 85-115 |  |  |  |
| Silver    | 105 | 1.5 | "    | 100 |  | 105 | 85-115 |  |  |  |
| Thallium  | 107 | 2.0 | "    | 100 |  | 107 | 85-115 |  |  |  |
| Zinc      | 101 | 14  | "    | 100 |  | 101 | 85-115 |  |  |  |

**Matrix Spike (B4G0227-MS1)**

Source: 1407011-01

Prepared: 07/02/14 Analyzed: 07/08/14

|           |      |     |      |     |     |      |        |  |  |  |
|-----------|------|-----|------|-----|-----|------|--------|--|--|--|
| Antimony  | 117  | 3.0 | µg/L | 100 | 3.0 | 114  | 70-130 |  |  |  |
| Arsenic   | 111  | 3.0 | "    | 100 | ND  | 111  | 70-130 |  |  |  |
| Beryllium | 108  | 3.0 | "    | 100 | ND  | 108  | 70-130 |  |  |  |
| Cadmium   | 110  | 2.0 | "    | 100 | 1.8 | 108  | 70-130 |  |  |  |
| Chromium  | 107  | 3.0 | "    | 100 | 1.1 | 106  | 70-130 |  |  |  |
| Copper    | 136  | 10  | "    | 100 | 15  | 121  | 70-130 |  |  |  |
| Lead      | 118  | 2.0 | "    | 100 | 7.2 | 111  | 70-130 |  |  |  |
| Nickel    | 110  | 5.0 | "    | 100 | 1.5 | 108  | 70-130 |  |  |  |
| Selenium  | 88.1 | 6.5 | "    | 100 | ND  | 88.1 | 70-130 |  |  |  |
| Silver    | 107  | 1.5 | "    | 100 | ND  | 107  | 70-130 |  |  |  |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals (Dissolved) by EPA 200 Series Methods - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0227 - EPA 200 Series**

**Matrix Spike (B4G0227-MS1)**

Source: 1407011-01 Prepared: 07/02/14 Analyzed: 07/08/14

|          |      |     |      |     |    |      |        |  |  |  |
|----------|------|-----|------|-----|----|------|--------|--|--|--|
| Thallium | 97.8 | 2.0 | µg/L | 100 | ND | 97.8 | 70-130 |  |  |  |
| Zinc     | 144  | 14  | "    | 100 | 37 | 107  | 70-130 |  |  |  |

**Matrix Spike Dup (B4G0227-MSD1)**

Source: 1407011-01 Prepared: 07/02/14 Analyzed: 07/08/14

|           |      |     |      |     |     |      |        |       |    |  |
|-----------|------|-----|------|-----|-----|------|--------|-------|----|--|
| Antimony  | 118  | 3.0 | µg/L | 100 | 3.0 | 115  | 70-130 | 0.851 | 30 |  |
| Arsenic   | 109  | 3.0 | "    | 100 | ND  | 109  | 70-130 | 1.82  | 30 |  |
| Beryllium | 110  | 3.0 | "    | 100 | ND  | 110  | 70-130 | 1.83  | 30 |  |
| Cadmium   | 109  | 2.0 | "    | 100 | 1.8 | 107  | 70-130 | 0.913 | 30 |  |
| Chromium  | 111  | 3.0 | "    | 100 | 1.1 | 110  | 70-130 | 3.67  | 30 |  |
| Copper    | 136  | 10  | "    | 100 | 15  | 121  | 70-130 | 0.00  | 30 |  |
| Lead      | 118  | 2.0 | "    | 100 | 7.2 | 111  | 70-130 | 0.00  | 30 |  |
| Nickel    | 112  | 5.0 | "    | 100 | 1.5 | 110  | 70-130 | 1.80  | 30 |  |
| Selenium  | 94.8 | 6.5 | "    | 100 | ND  | 94.8 | 70-130 | 7.33  | 30 |  |
| Silver    | 108  | 1.5 | "    | 100 | ND  | 108  | 70-130 | 0.930 | 30 |  |
| Thallium  | 88.3 | 2.0 | "    | 100 | ND  | 88.3 | 70-130 | 10.2  | 30 |  |
| Zinc      | 144  | 14  | "    | 100 | 37  | 107  | 70-130 | 0.00  | 30 |  |

**Batch B4G0229 - EPA 200 Series**

**Blank (B4G0229-BLK1)**

Prepared: 07/02/14 Analyzed: 07/09/14

|                     |    |        |      |  |  |  |  |  |  |  |
|---------------------|----|--------|------|--|--|--|--|--|--|--|
| Hexavalent Chromium | ND | 0.0020 | mg/L |  |  |  |  |  |  |  |
|---------------------|----|--------|------|--|--|--|--|--|--|--|

**LCS (B4G0229-BS1)**

Prepared: 07/02/14 Analyzed: 07/09/14

|                     |         |        |      |         |  |     |        |  |  |  |
|---------------------|---------|--------|------|---------|--|-----|--------|--|--|--|
| Hexavalent Chromium | 0.00302 | 0.0020 | mg/L | 0.00300 |  | 101 | 85-115 |  |  |  |
|---------------------|---------|--------|------|---------|--|-----|--------|--|--|--|

**Matrix Spike (B4G0229-MS1)**

Source: 1407011-01 Prepared: 07/02/14 Analyzed: 07/09/14

|                     |         |        |      |         |    |     |        |  |  |  |
|---------------------|---------|--------|------|---------|----|-----|--------|--|--|--|
| Hexavalent Chromium | 0.00300 | 0.0020 | mg/L | 0.00300 | ND | 100 | 80-120 |  |  |  |
|---------------------|---------|--------|------|---------|----|-----|--------|--|--|--|

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Metals (Dissolved) by EPA 200 Series Methods - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0229 - EPA 200 Series**

| <b>Matrix Spike Dup (B4G0229-MSD1)</b> |         | <b>Source: 1407011-01</b> |      |         | Prepared: 07/02/14 |     | Analyzed: 07/09/14 |      |    |  |
|--|---------|---------------------------|------|---------|--------------------|-----|--------------------|------|----|--|
| Hexavalent Chromium                    | 0.00300 | 0.0020                    | mg/L | 0.00300 | ND                 | 100 | 80-120             | 0.00 | 20 |  |

**Batch B4G0232 - EPA 200 Series**

| <b>Blank (B4G0232-BLK1)</b> |    |         |      |  | Prepared: 07/02/14 |  | Analyzed: 07/03/14 |  |  |  |
|-----------------------------|----|---------|------|--|--------------------|--|--------------------|--|--|--|
| Mercury                     | ND | 0.00073 | mg/L |  |                    |  |                    |  |  |  |

| <b>LCS (B4G0232-BS1)</b> |         |         |      |         | Prepared: 07/02/14 |      | Analyzed: 07/03/14 |  |  |  |
|--------------------------|---------|---------|------|---------|--------------------|------|--------------------|--|--|--|
| Mercury                  | 0.00088 | 0.00073 | mg/L | 0.00100 |                    | 88.0 | 80-120             |  |  |  |

| <b>Matrix Spike (B4G0232-MS1)</b> |         | <b>Source: 1407011-01</b> |      |         | Prepared: 07/02/14 |      | Analyzed: 07/03/14 |  |  |  |
|-----------------------------------|---------|---------------------------|------|---------|--------------------|------|--------------------|--|--|--|
| Mercury                           | 0.00088 | 0.00073                   | mg/L | 0.00100 | ND                 | 88.0 | 80-120             |  |  |  |

| <b>Matrix Spike Dup (B4G0232-MSD1)</b> |         | <b>Source: 1407011-01</b> |      |         | Prepared: 07/02/14 |      | Analyzed: 07/03/14 |      |    |  |
|--|---------|---------------------------|------|---------|--------------------|------|--------------------|------|----|--|
| Mercury                                | 0.00081 | 0.00073                   | mg/L | 0.00100 | ND                 | 81.0 | 80-120             | 8.28 | 20 |  |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Total Recoverable Petroleum Hydrocarbons (TRPH) by IR - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0850 - 418.1**

**Blank (B4G0850-BLK1)**

Prepared & Analyzed: 07/08/14

|      |    |     |      |  |  |  |  |  |  |  |
|------|----|-----|------|--|--|--|--|--|--|--|
| TRPH | ND | 1.0 | mg/L |  |  |  |  |  |  |  |
|------|----|-----|------|--|--|--|--|--|--|--|

**LCS (B4G0850-BS1)**

Prepared & Analyzed: 07/08/14

|      |      |     |      |      |  |      |        |  |  |  |
|------|------|-----|------|------|--|------|--------|--|--|--|
| TRPH | 8.48 | 1.0 | mg/L | 10.0 |  | 84.8 | 80-120 |  |  |  |
|------|------|-----|------|------|--|------|--------|--|--|--|

**LCS (B4G0850-BS2)**

Prepared & Analyzed: 07/08/14

|      |      |     |      |      |  |      |        |  |  |  |
|------|------|-----|------|------|--|------|--------|--|--|--|
| TRPH | 9.04 | 1.0 | mg/L | 10.0 |  | 90.4 | 80-120 |  |  |  |
|------|------|-----|------|------|--|------|--------|--|--|--|

**LCS Dup (B4G0850-BSD1)**

Prepared & Analyzed: 07/08/14

|      |      |     |      |      |  |      |        |      |    |  |
|------|------|-----|------|------|--|------|--------|------|----|--|
| TRPH | 8.88 | 1.0 | mg/L | 10.0 |  | 88.8 | 80-120 | 4.61 | 30 |  |
|------|------|-----|------|------|--|------|--------|------|----|--|

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0220 - EPA 3510C Sep Funnel**

**Blank (B4G0220-BLK1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|                                    |       |       |      |       |  |      |        |  |  |  |
|------------------------------------|-------|-------|------|-------|--|------|--------|--|--|--|
| Aldrin                             | ND    | 0.075 | µg/L |       |  |      |        |  |  |  |
| HCH-alpha                          | ND    | 0.010 | "    |       |  |      |        |  |  |  |
| HCH-beta                           | ND    | 0.050 | "    |       |  |      |        |  |  |  |
| HCH-delta                          | ND    | 0.10  | "    |       |  |      |        |  |  |  |
| HCH-gamma (Lindane)                | ND    | 0.20  | "    |       |  |      |        |  |  |  |
| Chlordane                          | ND    | 0.050 | "    |       |  |      |        |  |  |  |
| 4,4'-DDD                           | ND    | 0.010 | "    |       |  |      |        |  |  |  |
| 4,4'-DDE                           | ND    | 0.010 | "    |       |  |      |        |  |  |  |
| 4,4'-DDT                           | ND    | 0.010 | "    |       |  |      |        |  |  |  |
| Dieldrin                           | ND    | 0.020 | "    |       |  |      |        |  |  |  |
| Endosulfan I                       | ND    | 0.020 | "    |       |  |      |        |  |  |  |
| Endosulfan II                      | ND    | 0.050 | "    |       |  |      |        |  |  |  |
| Endosulfan sulfate                 | ND    | 0.050 | "    |       |  |      |        |  |  |  |
| Endrin                             | ND    | 0.10  | "    |       |  |      |        |  |  |  |
| Endrin aldehyde                    | ND    | 0.050 | "    |       |  |      |        |  |  |  |
| Heptachlor                         | ND    | 0.010 | "    |       |  |      |        |  |  |  |
| Heptachlor epoxide                 | ND    | 0.010 | "    |       |  |      |        |  |  |  |
| Toxaphene                          | ND    | 1.0   | "    |       |  |      |        |  |  |  |
| PCB-1016                           | ND    | 0.50  | "    |       |  |      |        |  |  |  |
| PCB-1221                           | ND    | 0.50  | "    |       |  |      |        |  |  |  |
| PCB-1232                           | ND    | 0.50  | "    |       |  |      |        |  |  |  |
| PCB-1242                           | ND    | 0.50  | "    |       |  |      |        |  |  |  |
| PCB-1248                           | ND    | 0.50  | "    |       |  |      |        |  |  |  |
| PCB-1254                           | ND    | 0.50  | "    |       |  |      |        |  |  |  |
| PCB-1260                           | ND    | 0.50  | "    |       |  |      |        |  |  |  |
| Surrogate: Decachlorobiphenyl      | 0.147 |       | "    | 0.250 |  | 58.8 | 42-147 |  |  |  |
| Surrogate: Tetrachloro-meta-xylene | 0.198 |       | "    | 0.250 |  | 79.2 | 42-147 |  |  |  |

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 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0220 - EPA 3510C Sep Funnel**

**LCS (B4G0220-BS1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|                     |        |       |      |        |  |      |        |  |  |   |
|---------------------|--------|-------|------|--------|--|------|--------|--|--|---|
| Aldrin              | 0.0748 | 0.075 | µg/L | 0.0800 |  | 93.5 | 80-120 |  |  | J |
| HCH-gamma (Lindane) | 0.0803 | 0.20  | "    | 0.0800 |  | 100  | 80-120 |  |  | J |
| 4,4'-DDT            | 0.175  | 0.010 | "    | 0.200  |  | 87.5 | 80-120 |  |  |   |
| Dieldrin            | 0.170  | 0.020 | "    | 0.200  |  | 85.0 | 80-120 |  |  |   |
| Heptachlor          | 0.0795 | 0.010 | "    | 0.0800 |  | 99.4 | 80-120 |  |  |   |

**LCS (B4G0220-BS2)**

Prepared: 07/02/14 Analyzed: 07/08/14

|                     |        |       |      |        |  |      |        |  |  |   |
|---------------------|--------|-------|------|--------|--|------|--------|--|--|---|
| Aldrin              | 0.0719 | 0.075 | µg/L | 0.0800 |  | 89.9 | 80-120 |  |  | J |
| HCH-gamma (Lindane) | 0.0854 | 0.20  | "    | 0.0800 |  | 107  | 80-120 |  |  | J |
| 4,4'-DDT            | 0.195  | 0.010 | "    | 0.200  |  | 97.5 | 80-120 |  |  |   |
| Dieldrin            | 0.191  | 0.020 | "    | 0.200  |  | 95.5 | 80-120 |  |  |   |
| Heptachlor          | 0.0712 | 0.010 | "    | 0.0800 |  | 89.0 | 80-120 |  |  |   |

**LCS Dup (B4G0220-BSD1)**

Prepared: 07/02/14 Analyzed: 07/08/14

|                     |        |       |      |        |  |      |        |      |    |   |
|---------------------|--------|-------|------|--------|--|------|--------|------|----|---|
| Aldrin              | 0.0737 | 0.075 | µg/L | 0.0800 |  | 92.1 | 80-120 | 1.48 | 30 | J |
| HCH-gamma (Lindane) | 0.0865 | 0.20  | "    | 0.0800 |  | 108  | 80-120 | 7.43 | 30 | J |
| 4,4'-DDT            | 0.177  | 0.010 | "    | 0.200  |  | 88.5 | 80-120 | 1.14 | 30 |   |
| Dieldrin            | 0.189  | 0.020 | "    | 0.200  |  | 94.5 | 80-120 | 10.6 | 30 |   |
| Heptachlor          | 0.0724 | 0.010 | "    | 0.0800 |  | 90.5 | 80-120 | 9.35 | 30 |   |

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Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Volatile Organics by EPA Method 624 - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0218 - EPA 5030B P & T**

**Blank (B4G0218-BLK1)**

Prepared & Analyzed: 07/02/14

|                           |    |      |      |  |  |  |  |  |  |  |
|---------------------------|----|------|------|--|--|--|--|--|--|--|
| Acetone                   | ND | 10   | µg/L |  |  |  |  |  |  |  |
| Acrolein                  | ND | 5.0  | "    |  |  |  |  |  |  |  |
| Acrylonitrile             | ND | 2.0  | "    |  |  |  |  |  |  |  |
| Benzene                   | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Bromobenzene              | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Bromodichloromethane      | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Bromoform                 | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Bromomethane              | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 2-Butanone                | ND | 5.0  | "    |  |  |  |  |  |  |  |
| Carbon tetrachloride      | ND | 0.50 | "    |  |  |  |  |  |  |  |
| Chlorobenzene             | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Chloroethane              | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 2-Chloroethylvinyl ether  | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Chloroform                | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Chloromethane             | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Dibromochloromethane      | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,2-Dichlorobenzene       | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,3-Dichlorobenzene       | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,4-Dichlorobenzene       | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,1-Dichloroethane        | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,2-Dichloroethane        | ND | 0.50 | "    |  |  |  |  |  |  |  |
| 1,1-Dichloroethene        | ND | 1.0  | "    |  |  |  |  |  |  |  |
| cis-1,2-Dichloroethene    | ND | 1.0  | "    |  |  |  |  |  |  |  |
| trans-1,2-Dichloroethene  | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,2-Dichloropropane       | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,1-Dichloropropene       | ND | 1.0  | "    |  |  |  |  |  |  |  |
| cis-1,3-Dichloropropene   | ND | 1.0  | "    |  |  |  |  |  |  |  |
| trans-1,3-Dichloropropene | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Ethylbenzene              | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Methylene chloride        | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,1,2,2-Tetrachloroethane | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Tetrachloroethene         | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Toluene                   | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,1,1-Trichloroethane     | ND | 1.0  | "    |  |  |  |  |  |  |  |
| 1,1,2-Trichloroethane     | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Trichloroethene           | ND | 1.0  | "    |  |  |  |  |  |  |  |
| Trichlorofluoromethane    | ND | 1.0  | "    |  |  |  |  |  |  |  |

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Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Volatile Organics by EPA Method 624 - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0218 - EPA 5030B P & T**

**Blank (B4G0218-BLK1)**

Prepared & Analyzed: 07/02/14

|  |      |      |      |      |  |      |        |  |  |  |
|--|------|------|------|------|--|------|--------|--|--|--|
| Vinyl chloride                         | ND   | 0.50 | µg/L |      |  |      |        |  |  |  |
| m,p-Xylene                             | ND   | 1.0  | "    |      |  |      |        |  |  |  |
| o-Xylene                               | ND   | 1.0  | "    |      |  |      |        |  |  |  |
| 1,2-Dibromoethane (EDB)                | ND   | 1.0  | "    |      |  |      |        |  |  |  |
| 1,2,4-Trichlorobenzene                 | ND   | 1.0  | "    |      |  |      |        |  |  |  |
| Methyl tert-butyl ether                | ND   | 1.0  | "    |      |  |      |        |  |  |  |
| Di-isopropyl ether                     | ND   | 1.0  | "    |      |  |      |        |  |  |  |
| Ethyl tert-butyl ether                 | ND   | 1.0  | "    |      |  |      |        |  |  |  |
| Tert-amyl methyl ether                 | ND   | 1.0  | "    |      |  |      |        |  |  |  |
| Tert-butyl alcohol                     | ND   | 5.0  | "    |      |  |      |        |  |  |  |
| <i>Surrogate: Dibromofluoromethane</i> | 51.1 |      | "    | 50.0 |  | 102  | 86-118 |  |  |  |
| <i>Surrogate: Toluene-d8</i>           | 49.8 |      | "    | 50.0 |  | 99.6 | 88-110 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 45.8 |      | "    | 50.0 |  | 91.6 | 86-115 |  |  |  |

**LCS (B4G0218-BS1)**

Prepared & Analyzed: 07/02/14

|                    |      |     |      |      |  |      |        |  |  |  |
|--------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene            | 54.1 | 1.0 | µg/L | 50.0 |  | 108  | 80-120 |  |  |  |
| Chlorobenzene      | 50.6 | 1.0 | "    | 50.0 |  | 101  | 80-120 |  |  |  |
| 1,1-Dichloroethene | 52.1 | 1.0 | "    | 50.0 |  | 104  | 80-120 |  |  |  |
| Toluene            | 52.2 | 1.0 | "    | 50.0 |  | 104  | 80-120 |  |  |  |
| Trichloroethene    | 46.5 | 1.0 | "    | 50.0 |  | 93.0 | 80-120 |  |  |  |

**Matrix Spike (B4G0218-MS1)**

Source: 1407011-01

Prepared & Analyzed: 07/02/14

|                    |      |     |      |      |    |      |        |  |  |  |
|--------------------|------|-----|------|------|----|------|--------|--|--|--|
| Benzene            | 31.4 | 1.0 | µg/L | 50.0 | ND | 62.8 | 37-151 |  |  |  |
| Chlorobenzene      | 60.2 | 1.0 | "    | 50.0 | ND | 120  | 37-160 |  |  |  |
| 1,1-Dichloroethene | 52.3 | 1.0 | "    | 50.0 | ND | 105  | 50-150 |  |  |  |
| Toluene            | 37.7 | 1.0 | "    | 50.0 | ND | 75.4 | 47-150 |  |  |  |
| Trichloroethene    | 43.6 | 1.0 | "    | 50.0 | ND | 87.2 | 71-157 |  |  |  |

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 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Volatile Organics by EPA Method 624 - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0218 - EPA 5030B P & T**

| Matrix Spike Dup (B4G0218-MSD1) | Source: 1407011-01 |     |      | Prepared & Analyzed: 07/02/14 |    |      |        |       |    |  |
|---------------------------------|--------------------|-----|------|-------------------------------|----|------|--------|-------|----|--|
| Benzene                         | 31.6               | 1.0 | µg/L | 50.0                          | ND | 63.2 | 37-151 | 0.635 | 30 |  |
| Chlorobenzene                   | 55.6               | 1.0 | "    | 50.0                          | ND | 111  | 37-160 | 7.94  | 30 |  |
| 1,1-Dichloroethene              | 50.5               | 1.0 | "    | 50.0                          | ND | 101  | 50-150 | 3.50  | 30 |  |
| Toluene                         | 40.1               | 1.0 | "    | 50.0                          | ND | 80.2 | 47-150 | 6.17  | 30 |  |
| Trichloroethene                 | 44.6               | 1.0 | "    | 50.0                          | ND | 89.2 | 71-157 | 2.27  | 30 |  |

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 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Semivolatile Organics by EPA Method 625 - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0919 - EPA 3510C Sep Funnel**

**Blank (B4G0919-BLK1)**

Prepared: 07/02/14 Analyzed: 07/07/14

|                             |    |     |      |
|-----------------------------|----|-----|------|
| Acenaphthene                | ND | 5.0 | µg/L |
| Acenaphthylene              | ND | 5.0 | "    |
| Anthracene                  | ND | 5.0 | "    |
| Benzidine                   | ND | 5.0 | "    |
| Benzo (a) anthracene        | ND | 5.0 | "    |
| Benzo (b) fluoranthene      | ND | 5.0 | "    |
| Benzo (k) fluoranthene      | ND | 5.0 | "    |
| Benzo (a) pyrene            | ND | 5.0 | "    |
| Benzo (g,h,i) perylene      | ND | 5.0 | "    |
| Butyl benzyl phthalate      | ND | 5.0 | "    |
| Bis(2-chloroethyl)ether     | ND | 5.0 | "    |
| Bis(2-chloroethoxy)methane  | ND | 5.0 | "    |
| Bis(2-ethylhexyl)phthalate  | ND | 5.0 | "    |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | "    |
| 4-Bromophenyl phenyl ether  | ND | 5.0 | "    |
| 2-Chlorophenol              | ND | 1.0 | "    |
| 4-Chloro-3-methylphenol     | ND | 5.0 | "    |
| 2-Chloronaphthalene         | ND | 5.0 | "    |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | "    |
| Chrysene                    | ND | 5.0 | "    |
| Dibenz (a,h) anthracene     | ND | 5.0 | "    |
| 1,3-Dichlorobenzene         | ND | 5.0 | "    |
| 1,2-Dichlorobenzene         | ND | 5.0 | "    |
| 1,4-Dichlorobenzene         | ND | 5.0 | "    |
| 3,3'-Dichlorobenzidine      | ND | 5.0 | "    |
| 2,4-Dichlorophenol          | ND | 1.0 | "    |
| Diethyl phthalate           | ND | 5.0 | "    |
| 2,4-Dimethylphenol          | ND | 1.0 | "    |
| Dimethyl phthalate          | ND | 5.0 | "    |
| Di-n-butyl phthalate        | ND | 5.0 | "    |
| 2,4-Dinitrophenol           | ND | 1.0 | "    |
| 2,4-Dinitrotoluene          | ND | 5.0 | "    |
| 2,6-Dinitrotoluene          | ND | 5.0 | "    |
| Di-n-octyl phthalate        | ND | 5.0 | "    |
| 1,2-Diphenylhydrazine       | ND | 5.0 | "    |
| Fluoranthene                | ND | 5.0 | "    |
| Fluorene                    | ND | 5.0 | "    |

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Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Semivolatile Organics by EPA Method 625 - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0919 - EPA 3510C Sep Funnel**

**Blank (B4G0919-BLK1)**

Prepared: 07/02/14 Analyzed: 07/07/14

|  |      |     |      |      |  |      |        |  |  |  |
|--|------|-----|------|------|--|------|--------|--|--|--|
| Hexachlorobenzene                      | ND   | 5.0 | µg/L |      |  |      |        |  |  |  |
| Hexachlorobutadiene                    | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Hexachlorocyclopentadiene              | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Hexachloroethane                       | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Indeno (1,2,3-cd) pyrene               | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Isophorone                             | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| 2-Methyl-4,6-dinitrophenol             | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Naphthalene                            | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Nitrobenzene                           | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| 2-Nitrophenol                          | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| 4-Nitrophenol                          | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| N-Nitrosodimethylamine                 | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Diphenylamine                          | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| N-Nitrosodi-n-propylamine              | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Pentachlorophenol                      | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| Phenanthrene                           | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| Phenol                                 | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| Pyrene                                 | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| 1,2,4-Trichlorobenzene                 | ND   | 5.0 | "    |      |  |      |        |  |  |  |
| 2,4,6-Trichlorophenol                  | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| <i>Surrogate: 2-Fluorophenol</i>       | 11.8 |     | "    | 15.0 |  | 78.7 | 25-121 |  |  |  |
| <i>Surrogate: Phenol-d6</i>            | 11.4 |     | "    | 15.0 |  | 76.0 | 24-113 |  |  |  |
| <i>Surrogate: Nitrobenzene-d5</i>      | 8.22 |     | "    | 10.0 |  | 82.2 | 23-120 |  |  |  |
| <i>Surrogate: 2-Fluorobiphenyl</i>     | 8.52 |     | "    | 10.0 |  | 85.2 | 30-115 |  |  |  |
| <i>Surrogate: 2,4,6-Tribromophenol</i> | 10.5 |     | "    | 15.0 |  | 70.0 | 19-122 |  |  |  |
| <i>Surrogate: Terphenyl-d14</i>        | 7.99 |     | "    | 10.0 |  | 79.9 | 18-137 |  |  |  |

**LCS (B4G0919-BS1)**

Prepared: 07/02/14 Analyzed: 07/07/14

|                           |      |     |      |      |  |      |        |  |  |  |
|---------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Acenaphthene              | 9.56 | 5.0 | µg/L | 10.0 |  | 95.6 | 47-145 |  |  |  |
| 2-Chlorophenol            | 12.2 | 1.0 | "    | 20.0 |  | 61.0 | 23-134 |  |  |  |
| 4-Chloro-3-methylphenol   | 11.1 | 5.0 | "    | 20.0 |  | 55.5 | 22-147 |  |  |  |
| 1,4-Dichlorobenzene       | 8.79 | 5.0 | "    | 10.0 |  | 87.9 | 20-124 |  |  |  |
| 2,4-Dinitrotoluene        | 8.62 | 5.0 | "    | 10.0 |  | 86.2 | 39-139 |  |  |  |
| 4-Nitrophenol             | 7.49 | 1.0 | "    | 20.0 |  | 37.4 | 0-132  |  |  |  |
| N-Nitrosodi-n-propylamine | 8.66 | 5.0 | "    | 10.0 |  | 86.6 | 0-230  |  |  |  |
| Pentachlorophenol         | 9.31 | 1.0 | "    | 20.0 |  | 46.6 | 14-176 |  |  |  |
| Phenol                    | 11.3 | 1.0 | "    | 20.0 |  | 56.5 | 5-112  |  |  |  |

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Semivolatile Organics by EPA Method 625 - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0919 - EPA 3510C Sep Funnel**

**LCS (B4G0919-BS1)**

Prepared: 07/02/14 Analyzed: 07/07/14

|                        |      |     |      |      |  |      |        |  |  |  |
|------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Pyrene                 | 8.41 | 5.0 | µg/L | 10.0 |  | 84.1 | 52-115 |  |  |  |
| 1,2,4-Trichlorobenzene | 9.07 | 5.0 | "    | 10.0 |  | 90.7 | 44-142 |  |  |  |

**LCS (B4G0919-BS2)**

Prepared: 07/02/14 Analyzed: 07/07/14

|                           |      |     |      |      |  |      |        |  |  |  |
|---------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Acenaphthene              | 8.89 | 5.0 | µg/L | 10.0 |  | 88.9 | 47-145 |  |  |  |
| 2-Chlorophenol            | 10.7 | 1.0 | "    | 20.0 |  | 53.5 | 23-134 |  |  |  |
| 4-Chloro-3-methylphenol   | 12.4 | 5.0 | "    | 20.0 |  | 62.0 | 22-147 |  |  |  |
| 1,4-Dichlorobenzene       | 9.05 | 5.0 | "    | 10.0 |  | 90.5 | 20-124 |  |  |  |
| 2,4-Dinitrotoluene        | 8.41 | 5.0 | "    | 10.0 |  | 84.1 | 39-139 |  |  |  |
| 4-Nitrophenol             | 7.66 | 1.0 | "    | 20.0 |  | 38.3 | 0-132  |  |  |  |
| N-Nitrosodi-n-propylamine | 8.13 | 5.0 | "    | 10.0 |  | 81.3 | 0-230  |  |  |  |
| Pentachlorophenol         | 9.22 | 1.0 | "    | 20.0 |  | 46.1 | 14-176 |  |  |  |
| Phenol                    | 11.7 | 1.0 | "    | 20.0 |  | 58.5 | 5-112  |  |  |  |
| Pyrene                    | 8.80 | 5.0 | "    | 10.0 |  | 88.0 | 52-115 |  |  |  |
| 1,2,4-Trichlorobenzene    | 9.23 | 5.0 | "    | 10.0 |  | 92.3 | 44-142 |  |  |  |

**LCS Dup (B4G0919-BSD1)**

Prepared: 07/02/14 Analyzed: 07/07/14

|                           |      |     |      |      |  |      |        |       |    |  |
|---------------------------|------|-----|------|------|--|------|--------|-------|----|--|
| Acenaphthene              | 9.71 | 5.0 | µg/L | 10.0 |  | 97.1 | 47-145 | 1.56  | 30 |  |
| 2-Chlorophenol            | 12.4 | 1.0 | "    | 20.0 |  | 62.0 | 23-134 | 1.63  | 30 |  |
| 4-Chloro-3-methylphenol   | 11.7 | 5.0 | "    | 20.0 |  | 58.5 | 22-147 | 5.26  | 30 |  |
| 1,4-Dichlorobenzene       | 9.41 | 5.0 | "    | 10.0 |  | 94.1 | 20-124 | 6.81  | 30 |  |
| 2,4-Dinitrotoluene        | 8.16 | 5.0 | "    | 10.0 |  | 81.6 | 39-139 | 5.48  | 30 |  |
| 4-Nitrophenol             | 7.84 | 1.0 | "    | 20.0 |  | 39.2 | 0-132  | 4.57  | 30 |  |
| N-Nitrosodi-n-propylamine | 8.62 | 5.0 | "    | 10.0 |  | 86.2 | 0-230  | 0.463 | 30 |  |
| Pentachlorophenol         | 8.79 | 1.0 | "    | 20.0 |  | 44.0 | 14-176 | 5.75  | 30 |  |
| Phenol                    | 10.5 | 1.0 | "    | 20.0 |  | 52.5 | 5-112  | 7.34  | 30 |  |
| Pyrene                    | 8.84 | 5.0 | "    | 10.0 |  | 88.4 | 52-115 | 4.99  | 30 |  |
| 1,2,4-Trichlorobenzene    | 9.33 | 5.0 | "    | 10.0 |  | 93.3 | 44-142 | 2.83  | 30 |  |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Methanol by Headspace GC-FID - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0852 - EPA 3810 Headspace**

|                                 |      |     |      |                               |    |      |                               |  |    |  |
|---------------------------------|------|-----|------|-------------------------------|----|------|-------------------------------|--|----|--|
| <b>Blank (B4G0852-BLK1)</b>     |      |     |      | Prepared & Analyzed: 07/09/14 |    |      |                               |  |    |  |
| Methanol                        | ND   | 1.0 | mg/L |                               |    |      |                               |  |    |  |
| <b>LCS (B4G0852-BS1)</b>        |      |     |      | Prepared & Analyzed: 07/09/14 |    |      |                               |  |    |  |
| Methanol                        | 95.6 | 1.0 | mg/L | 100                           |    | 95.6 | 80-120                        |  |    |  |
| <b>Duplicate (B4G0852-DUP1)</b> |      |     |      | <b>Source: 1407011-01</b>     |    |      | Prepared & Analyzed: 07/09/14 |  |    |  |
| Methanol                        | ND   | 1.0 | mg/L |                               | ND |      |                               |  | 30 |  |

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Total Volatile Petroleum Hydrocarbons (TVPH) by GC/FID - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0219 - EPA 5030B P & T**

**Blank (B4G0219-BLK1)**

Prepared & Analyzed: 07/02/14

|                                      |      |    |      |      |  |      |        |  |  |  |
|--------------------------------------|------|----|------|------|--|------|--------|--|--|--|
| Gasoline Range Hydrocarbons (C4-C12) | ND   | 50 | µg/L |      |  |      |        |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene    | 14.7 |    | "    | 20.0 |  | 73.5 | 70-125 |  |  |  |

**LCS (B4G0219-BS1)**

Prepared & Analyzed: 07/02/14

|                                      |     |    |      |     |  |      |        |  |  |  |
|--------------------------------------|-----|----|------|-----|--|------|--------|--|--|--|
| Gasoline Range Hydrocarbons (C4-C12) | 480 | 50 | µg/L | 600 |  | 80.0 | 80-120 |  |  |  |
|--------------------------------------|-----|----|------|-----|--|------|--------|--|--|--|

**Matrix Spike (B4G0219-MS1)**

Source: 1407011-02

Prepared & Analyzed: 07/02/14

|                                      |     |    |      |     |    |     |        |  |  |  |
|--------------------------------------|-----|----|------|-----|----|-----|--------|--|--|--|
| Gasoline Range Hydrocarbons (C4-C12) | 654 | 50 | µg/L | 600 | ND | 109 | 50-150 |  |  |  |
|--------------------------------------|-----|----|------|-----|----|-----|--------|--|--|--|

**Matrix Spike Dup (B4G0219-MSD1)**

Source: 1407011-02

Prepared & Analyzed: 07/02/14

|                                      |     |    |      |     |    |      |        |      |    |  |
|--------------------------------------|-----|----|------|-----|----|------|--------|------|----|--|
| Gasoline Range Hydrocarbons (C4-C12) | 569 | 50 | µg/L | 600 | ND | 94.8 | 50-150 | 13.9 | 30 |  |
|--------------------------------------|-----|----|------|-----|----|------|--------|------|----|--|

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Total Petroleum Hydrocarbons (TPH) by GC/FID - Quality Control**  
**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0733 - EPA 3510C Sep Funnel**

**Blank (B4G0733-BLK1)**

Prepared & Analyzed: 06/30/14

|                                 |               |       |      |               |  |             |               |  |  |  |
|---------------------------------|---------------|-------|------|---------------|--|-------------|---------------|--|--|--|
| Diesel Range Organics (C10-C24) | ND            | 0.050 | mg/L |               |  |             |               |  |  |  |
| <i>Surrogate: o-Terphenyl</i>   | <i>0.0202</i> |       | "    | <i>0.0250</i> |  | <i>80.8</i> | <i>60-175</i> |  |  |  |

**LCS (B4G0733-BS1)**

Prepared & Analyzed: 06/30/14

|                                 |       |       |      |       |  |      |        |  |  |  |
|---------------------------------|-------|-------|------|-------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C24) | 0.485 | 0.050 | mg/L | 0.500 |  | 97.0 | 80-120 |  |  |  |
|---------------------------------|-------|-------|------|-------|--|------|--------|--|--|--|

**LCS (B4G0733-BS2)**

Prepared & Analyzed: 06/30/14

|                                 |       |       |      |       |  |     |        |  |  |  |
|---------------------------------|-------|-------|------|-------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C24) | 0.513 | 0.050 | mg/L | 0.500 |  | 103 | 80-120 |  |  |  |
|---------------------------------|-------|-------|------|-------|--|-----|--------|--|--|--|

**LCS Dup (B4G0733-BSD1)**

Prepared & Analyzed: 06/30/14

|                                 |       |       |      |       |  |      |        |      |    |  |
|---------------------------------|-------|-------|------|-------|--|------|--------|------|----|--|
| Diesel Range Organics (C10-C24) | 0.463 | 0.050 | mg/L | 0.500 |  | 92.6 | 80-120 | 4.64 | 30 |  |
|---------------------------------|-------|-------|------|-------|--|------|--------|------|----|--|

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Ninyo & Moore - Irvine  
 475 Goddard Suite 200  
 Irvine CA, 92618

Project: NPDES Permit  
 Project Number: [none]  
 Project Manager: Michael Cushner

Reported:  
 07/21/14 09:30

**Ethanol by EPA 8260B (SIM- Selective Ion Mode) - Quality Control**

**Sierra Analytical Labs, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B4G0218 - EPA 5030B P & T**

**Blank (B4G0218-BLK1)**

Prepared & Analyzed: 07/02/14

|                                 |      |    |      |      |  |      |        |  |  |  |
|---------------------------------|------|----|------|------|--|------|--------|--|--|--|
| Ethanol                         | ND   | 50 | µg/L |      |  |      |        |  |  |  |
| Surrogate: Dibromofluoromethane | 51.1 |    | "    | 50.0 |  | 102  | 86-118 |  |  |  |
| Surrogate: Toluene-d8           | 49.8 |    | "    | 50.0 |  | 99.6 | 88-110 |  |  |  |
| Surrogate: 4-Bromofluorobenzene | 45.8 |    | "    | 50.0 |  | 91.6 | 86-115 |  |  |  |

**LCS (B4G0218-BS1)**

Prepared & Analyzed: 07/02/14

|                         |      |      |      |      |  |      |        |  |  |  |
|-------------------------|------|------|------|------|--|------|--------|--|--|--|
| Methyl tert-butyl ether | 47.6 | 0.50 | µg/L | 50.0 |  | 95.2 | 80-120 |  |  |  |
|-------------------------|------|------|------|------|--|------|--------|--|--|--|

**Matrix Spike (B4G0218-MS1)**

Source: 1407011-01

Prepared & Analyzed: 07/02/14

|                         |      |      |      |      |    |      |        |  |  |  |
|-------------------------|------|------|------|------|----|------|--------|--|--|--|
| Methyl tert-butyl ether | 30.5 | 0.50 | µg/L | 50.0 | ND | 61.0 | 37-160 |  |  |  |
|-------------------------|------|------|------|------|----|------|--------|--|--|--|

**Matrix Spike Dup (B4G0218-MSD1)**

Source: 1407011-01

Prepared & Analyzed: 07/02/14

|                         |      |      |      |      |    |      |        |      |    |  |
|-------------------------|------|------|------|------|----|------|--------|------|----|--|
| Methyl tert-butyl ether | 32.1 | 0.50 | µg/L | 50.0 | ND | 64.2 | 37-160 | 5.11 | 30 |  |
|-------------------------|------|------|------|------|----|------|--------|------|----|--|

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Ninyo & Moore - Irvine  
475 Goddard Suite 200  
Irvine CA, 92618

Project: NPDES Permit  
Project Number: [none]  
Project Manager: Michael Cushner

**Reported:**  
07/21/14 09:30

**Notes and Definitions**

\_NTU> >180

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

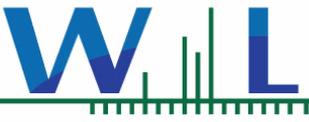
NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

---

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Certificate of Analysis

Report Date: 07/14/14 15:38
Received Date: 07/03/14 11:35
Turnaround Time: Normal

Project: 1407011

Phones: (949) 348-9389
Fax: (949) 348-9115

P.O. #:

Attn: Rick Forsyth

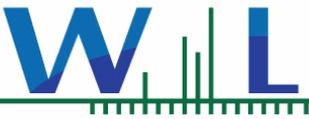
Client: Sierra Analytical Labs, Inc.
26052 Merit Circle, Suite 104
Laguna Hills, CA 92653

Dear Rick Forsyth :

Enclosed are the results of analyses for samples received 7/3/2014 with the Chain of Custody document. The samples were received in good condition, at 9.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Table with 11 columns: Analyte, Result, MDL, MRL, Units, Dil, Method, Prepared, Analyzed, Batch, Qualifier. Row 1: Cyanide, Total, ND, 5.0, ug/l, 1, EPA 335.4, 7/7/14, 7/8/14 12:24, W4G0264. Row 2: 1,4-Dioxane, ND, 0.50, ug/l, 1, EPA 8270M, 7/7/14, 7/10/14 18:25, W4G0251.

Table with 11 columns: Analyte, Result, MDL, MRL, Units, Dil, Method, Prepared, Analyzed, Batch, Qualifier. Row 1: Cyanide, Total, ND, 5.0, ug/l, 1, EPA 335.4, 7/7/14, 7/8/14 12:25, W4G0264. Row 2: 1,4-Dioxane, ND, 0.50, ug/l, 1, EPA 8270M, 7/7/14, 7/10/14 18:43, W4G0251.



## Certificate of Analysis

## Quality Control Section

## 1,4-Dioxane Low Level by isotopic dilution GC/MS - Quality Control

## Batch W4G0251 - EPA 8270M

| Blank (W4G0251-BLK1)   |               |           |           |       | Prepared: 07/07/14 | Analyzed: 07/10/14 13:12 |             |     |           |  |
|------------------------|---------------|-----------|-----------|-------|--------------------|--------------------------|-------------|-----|-----------|--|
| Analyte                | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits | RPD | RPD Limit |  |
| 1,4-Dioxane            |               | ND        |           | ug/l  |                    |                          |             |     |           |  |
| LCS (W4G0251-BS1)      |               |           |           |       | Prepared: 07/07/14 | Analyzed: 07/10/14 13:31 |             |     |           |  |
| Analyte                | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits | RPD | RPD Limit |  |
| 1,4-Dioxane            |               | 10.9      |           | ug/l  | 10.0               | 109                      | 84-125      |     |           |  |
| LCS Dup (W4G0251-BSD1) |               |           |           |       | Prepared: 07/07/14 | Analyzed: 07/10/14 13:49 |             |     |           |  |
| Analyte                | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits | RPD | RPD Limit |  |
| 1,4-Dioxane            |               | 11.2      |           | ug/l  | 10.0               | 112                      | 84-125      | 2   | 30        |  |

## Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods - Quality Control

## Batch W4G0264 - EPA 335.4

| Blank (W4G0264-BLK1)            |               |           |           |       | Prepared: 07/07/14 | Analyzed: 07/08/14 12:20 |                          |     |           |  |  |
|---------------------------------|---------------|-----------|-----------|-------|--------------------|--------------------------|--------------------------|-----|-----------|--|--|
| Analyte                         | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits              | RPD | RPD Limit |  |  |
| Cyanide, Total                  |               | ND        |           | ug/l  |                    |                          |                          |     |           |  |  |
| LCS (W4G0264-BS1)               |               |           |           |       | Prepared: 07/07/14 | Analyzed: 07/08/14 12:11 |                          |     |           |  |  |
| Analyte                         | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits              | RPD | RPD Limit |  |  |
| Cyanide, Total                  |               | 66.3      |           | ug/l  | 67.9               | 98                       | 90-110                   |     |           |  |  |
| Matrix Spike (W4G0264-MS1)      |               |           |           |       | Source: 4G03050-01 | Prepared: 07/07/14       | Analyzed: 07/08/14 12:13 |     |           |  |  |
| Analyte                         | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits              | RPD | RPD Limit |  |  |
| Cyanide, Total                  | ND            | 67.3      |           | ug/l  | 67.9               | 99                       | 90-110                   |     |           |  |  |
| Matrix Spike (W4G0264-MS2)      |               |           |           |       | Source: 4G03050-03 | Prepared: 07/07/14       | Analyzed: 07/08/14 12:15 |     |           |  |  |
| Analyte                         | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits              | RPD | RPD Limit |  |  |
| Cyanide, Total                  | ND            | 69.5      |           | ug/l  | 67.9               | 102                      | 90-110                   |     |           |  |  |
| Matrix Spike Dup (W4G0264-MSD1) |               |           |           |       | Source: 4G03050-01 | Prepared: 07/07/14       | Analyzed: 07/08/14 12:14 |     |           |  |  |
| Analyte                         | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits              | RPD | RPD Limit |  |  |
| Cyanide, Total                  | ND            | 67.3      |           | ug/l  | 67.9               | 99                       | 90-110                   | 0   | 20        |  |  |
| Matrix Spike Dup (W4G0264-MSD2) |               |           |           |       | Source: 4G03050-03 | Prepared: 07/07/14       | Analyzed: 07/08/14 12:16 |     |           |  |  |
| Analyte                         | Sample Result | QC Result | Qualifier | Units | Spike Level        | %REC                     | %REC Limits              | RPD | RPD Limit |  |  |
| Cyanide, Total                  | ND            | 69.7      |           | ug/l  | 67.9               | 103                      | 90-110                   | 0.3 | 20        |  |  |

### Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.  
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.  
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).  
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

**Authorized Signature**

Contact: Kim G Tu  
(Project Manager)



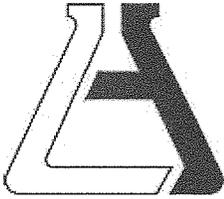
ELAP # 1132  
LACSD # 10143  
NELAC # 04229CA



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity
- NR Not Reportable



## Associated Laboratories

806 N. Batavia - Orange, CA 92868  
Tel (714)771-6900 Fax (714)538-1209  
www.associatedlabs.com  
Info@associatedlabs.com



Client: Sierra Laboratories  
Address: 26052 Merit Circle  
Suite 104  
Laguna Hills, CA 92653  
Attn: Rick Forsyth

Lab Request: 342925  
Report Date: 07/15/2014  
Date Received: 07/03/2014  
Client ID: 6906

Comments: 1407011

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

---

| <u>Sample #</u> | <u>Client Sample ID</u> |
|-----------------|-------------------------|
| 342925-001      | BP-1 (1407011-01)       |
| 342925-002      | BP-2 (1407011-02)       |

---

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Nina Prasad  
President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

19572-DRAFT REPORT

Lab Request 342925, Page 1 of 4

TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

|                                    |   |                          |
|------------------------------------|---|--------------------------|
| <b>Matrix:</b> Water               | <b>Client:</b> Sierra Laboratories        | <b>Collector:</b> Client |
| <b>Sampled:</b> 07/01/2014 09:00   | <b>Site:</b>                              |                          |
| <b>Sample #:</b> <u>342925-001</u> | <b>Client Sample #:</b> BP-1 (1407011-01) | <b>Sample Type:</b>      |

| Analyte                  | Result                    | DF | RDL                         | Units | Analyzed | By  | Notes |
|--------------------------|---------------------------|----|-----------------------------|-------|----------|-----|-------|
| <b>Method:</b> EPA 314.0 | <b>Prep Method:</b> 314.0 |    | <b>QCBatchID:</b> QC1147658 |       |          |     |       |
| Perchlorate              | ND                        | 1  | 4                           | ug/L  | 07/03/14 | wyu |       |

|                                    |   |                          |
|------------------------------------|---|--------------------------|
| <b>Matrix:</b> Water               | <b>Client:</b> Sierra Laboratories        | <b>Collector:</b> Client |
| <b>Sampled:</b> 07/01/2014 11:00   | <b>Site:</b>                              |                          |
| <b>Sample #:</b> <u>342925-002</u> | <b>Client Sample #:</b> BP-2 (1407011-02) | <b>Sample Type:</b>      |

| Analyte                  | Result                    | DF | RDL                         | Units | Analyzed | By  | Notes |
|--------------------------|---------------------------|----|-----------------------------|-------|----------|-----|-------|
| <b>Method:</b> EPA 314.0 | <b>Prep Method:</b> 314.0 |    | <b>QCBatchID:</b> QC1147658 |       |          |     |       |
| Perchlorate              | ND                        | 1  | 4                           | ug/L  | 07/03/14 | wyu |       |



|                             |                      |                          |
|-----------------------------|----------------------|--------------------------|
| QCBatchID: <b>QC1147658</b> | Analyst: wei         | Method: EPA 314.0        |
| Matrix: Water               | Analyzed: 07/03/2014 | Instrument: CHEM (group) |

**Blank Summary**

| Analyte             | Blank Result | Units | RDL | Notes |
|---------------------|--------------|-------|-----|-------|
| <b>QC1147658MB1</b> |              |       |     |       |
| Perchlorate         | ND           | ug/L  | 4   |       |

**Lab Control Spike/ Lab Control Spike Duplicate Summary**

| Analyte              | Spike Amount |      | Spike Result |      | Units | Recoveries |      |     | Limits |     | Notes |
|----------------------|--------------|------|--------------|------|-------|------------|------|-----|--------|-----|-------|
|                      | LCS          | LCSD | LCS          | LCSD |       | LCS        | LCSD | RPD | %Rec   | RPD |       |
| <b>QC1147658LCS1</b> |              |      |              |      |       |            |      |     |        |     |       |
| Perchlorate          | 50           |      | 49.9         |      | ug/L  | 100        |      |     | 85-115 |     |       |

**Matrix Spike/Matrix Spike Duplicate Summary**

| Analyte                            | Sample Amount | Spike Amount |     | Spike Result |      | Units | Recoveries |     |     | Limits |     | Notes              |
|------------------------------------|---------------|--------------|-----|--------------|------|-------|------------|-----|-----|--------|-----|--------------------|
|                                    |               | MS           | MSD | MS           | MSD  |       | MS         | MSD | RPD | %Rec   | RPD |                    |
| <b>QC1147658MS1, QC1147658MSD1</b> |               |              |     |              |      |       |            |     |     |        |     |                    |
| Perchlorate                        | ND            | 50           | 50  | 50.2         | 49.6 | ug/L  | 100        | 99  | 1.2 | 80-120 | 20  | Source: 342657-001 |



## Notes and Definitions

|            |  |
|------------|--|
| <b>B</b>   | Analyte was present in an associated method blank. Associated sample data was reported with qualifier.   |
| <b>BQ1</b> | No valid test replicates. Result may be greater. Best result was reported with qualifier. Sample toxicity possible.  |
| <b>BQ2</b> | No valid test replicates.  |
| <b>BQ3</b> | Minimum DO is less than 1.0 mg/L. Result may be greater and reported with qualifier.   |
| <b>C</b>   | Laboratory Contamination.  |
| <b>D</b>   | The sample duplicate RPD was not within control limits, the sample data was reported without further clarification.  |
| <b>DF</b>  | Dilution Factor  |
| <b>DW</b>  | Sample result is calculated on a dry weigh basis   |
| <b>J</b>   | Reported value is estimated  |
| <b>L</b>   | The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.   |
| <b>M</b>   | The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification. |
| <b>MDL</b> | Method Detection Limit   |
| <b>NC</b>  | The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.   |
| <b>ND</b>  | Analyte was not detected or was less than the detection limit.   |
| <b>P</b>   | Sample was received without proper preservation according to EPA guidelines.   |
| <b>Q1</b>  | Analyte Calibration Verification exceeds criteria and the result was reported with qualifier.  |
| <b>Q2</b>  | Analyte calibration was not verified and the result was estimated and reported with qualifier.   |
| <b>Q3</b>  | Analyte initial calibration was not available or exceeds criteria. The result was estimated and reported with qualifier.   |
| <b>Q4</b>  | Analyte result out of calibration range and was reported with qualifier  |
| <b>RDL</b> | Reporting Detection Limit  |
| <b>S</b>   | The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.                    |
| <b>T</b>   | Sample was extracted/analyzed past the holding time.   |
| <b>T2</b>  | Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.  |
| <b>TIC</b> | Tentatively Identified Compounds   |





**SUBCONTRACT ORDER**  
**Sierra Analytical Labs, Inc.**  
**Sierra Project #: 1407011**

342-925

Comments

**SENDING LABORATORY:**

Sierra Analytical Labs, Inc.  
 26052 Merit Circle, Suite 104  
 Laguna Hills, CA 92653  
 Phone: (949) 348-9389  
 Fax: (949) 348-9115  
 Laboratory Contact: Rick Forsyth (rickf@sierralabs.net)

|                 |  |                                  |
|-----------------|--|----------------------------------|
| Turn Around     | <input checked="" type="checkbox"/> Normal | <input type="checkbox"/> 24 Hour |
| Time Requested: | <input type="checkbox"/> 48 Hour           | <input type="checkbox"/> 72 Hour |
|                 | <input type="checkbox"/> 4 Day             | <input type="checkbox"/> 5 Day   |

**RECEIVING LABORATORY:**

Associated Laboratories  
 806 N. Batavia  
 Orange, CA 92868  
 Phone : (714) 771-6900  
 Fax: (714) 538-1209

| Analysis                                   | Expires        | Sampled:       | Laboratory ID | Comments |
|--|----------------|----------------|---------------|----------|
| Sample ID: BP-1 (1407011-01)               | Liquid         | 07/01/14 09:00 |               |          |
| EPA 314.0-Perchlorate                      | 07/29/14 09:00 |                |               |          |
| <i>Containers Supplied:</i><br>1L Poly (B) |                |                |               |          |
| Sample ID: BP-2 (1407011-02)               | Liquid         | 07/01/14 11:00 |               |          |
| EPA 314.0-Perchlorate                      | 07/29/14 11:00 |                |               |          |
| <i>Containers Supplied:</i><br>1L Poly (B) |                |                |               |          |

Special Instructions :

|  |  |
|--|--|
| <input type="checkbox"/> Intact                | <input type="checkbox"/> Sample Seals                |
| <input type="checkbox"/> Properly Labeled      | <input type="checkbox"/> Chilled TEMP (°C)           |
| <input type="checkbox"/> Appropriate Container | <input type="checkbox"/> Preservatives - Verified By |

R. Mas 7/3/14 1340  
 Relinquished By Date / Time

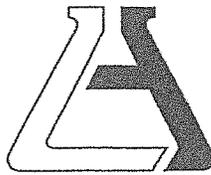
\_\_\_\_\_  
 Relinquished By Date / Time

\_\_\_\_\_  
 Relinquished By Date / Time

Chris O 7/3/14 1340  
 Received By Date / Time

\_\_\_\_\_  
 Received By Date / Time

\_\_\_\_\_  
 Received By Date / Time



**ASSOCIATED LABORATORIES**

806 North Batavia – Orange, California 92868 – 714-771-6900

FAX 714-538-1209

**SAMPLE ACCEPTANCE CHECKLIST**

**Section 1**  
 Client: Sierra Analytical Labs, Inc. Project: 1407011  
 Date Received: 7/3/14 Sampler's Name: Yes  No   
 Sample temperature: 12°C  
 Sample(s) received in cooler:  Yes  No (Skip Section 2)  
 Shipping Information: \_\_\_\_\_

**Section 2**  
 Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_  
 Cooler Temperature: 2°C

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤ 10 Deg. C or arrival on ice )

| Section 3  | YES | NO | N/A |
|--|-----|----|-----|
| Was a COC received?  | ✓   |    |     |
| Is it properly completed? (IDs, sampling date and time, signature, test) | ✓   |    |     |
| Were custody seals present?  |     |    | ✓   |
| If Yes – were they intact?   |     |    | ✓   |
| Were all samples sealed in plastic bags?                                 | ✓   |    |     |
| Did all samples arrive intact? If no, indicate below.                    | ✓   |    |     |
| Did all bottle labels agree with COC? (ID, dates and times)              | ✓   |    |     |
| Were correct containers used for the tests required?                     | ✓   |    |     |
| Was a sufficient amount of sample sent for tests indicated?              | ✓   |    |     |
| Was there headspace in VOA vials?  |     |    | ✓   |
| Were the containers labeled with correct preservatives?                  |     |    | ✓   |
| Was total residual chlorine measured (Fish Bioassay samples only)? *     |     |    | ✓   |

\*: If the answer is no, please inform Fish Bioassay Dept. immediately.

**Section 4**  
 Explanations/Comments  
 \_\_\_\_\_  
 \_\_\_\_\_

**Section 5**  
 Was Project Manager notified of discrepancies: Y / N N/A  
 Project Manager's response: \_\_\_\_\_  
 \_\_\_\_\_

Completed By: Chris Ok Date: 7/3/14



CHAIN OF CUSTODY RECORD

SIERRA ANALYTICAL
TEL: 949-348-9389
FAX: 949-348-9115
26052 Merit Circle • Suite 104 • Laguna Hills, CA • 92653

Date: 7/1/14 Page 1 of 2

Lab Project No.: 140701

Client: Ningyo & Moore Client Project ID:

Client Address: 475 Goddard #200 Irvine, CA 92618
Client Tel. No.: 949-753-7070
Client Fax No.: 949-753-7070
Client Proj. Mgr.: Michael Cushman

Turn Around Time Requested: Immediate, 48 Hour, 4 Day, Normal (checked), 24 Hour, 72 Hour, 5 Day, Mobile

Analysis Requested

Table with columns for Client Sample ID, Date, Time, Matrix, Preservative, Container Type, No. of Containers, and Field Point Names/Comments. Includes handwritten entries for BP-1 and BP-2.

Geotracker EDD Info: Client LOGCODE, Site Global ID, Field Point Names/Comments

Shipped Via, Received By, Company, Date, Time, Relinquished By, Company, Date, Time

Sample Disposal: Return to Client, Lab Disposal\*, Archive mos., Other

FOR LABORATORY USE ONLY - Sample Receipt Conditions: Intact, Sample Seals, Properly Labelled, Appropriate Sample Container

Special Instructions: (Blank)