

APPENDIX 8.14B

**Phase I Update and
Phase II Groundwater Investigation**



ENVIRONMENTAL STRATEGIES CONSULTING LLC

2025 Gateway Place, Suite 280 • San Jose, California 95110 • (408) 453-6100 • Fax (408) 453-0496

November 2, 2005

Thomas J. McCabe, Jr.
Edison Mission Energy
18101 Von Karman Avenue Suite 1700
Irvine, California 92715

Re: Walnut Creek Energy Project: Phase I Update and Phase II Groundwater Investigation at
911 Bixby Drive, City of Industry, California

Dear Mr. McCabe,

On behalf of Edison Mission Energy (EME), Environmental Strategies Consulting LLC (Environmental Strategies) gathered information to update a previous Phase I Environmental Site Assessment and conducted a Phase II Groundwater Investigation for the Walnut Creek Energy Project located at 911 Bixby Drive, City of Industry, California (Figure 1).

Environmental Strategies prepared a Phase I Environmental Site Assessment of 911 Bixby Drive, City of Industry, California dated May 20, 2005. The subject property is owned by the City of Industry and leased to ARC International Corporation (ARC). The ARC facility is a California Integrated Waste Management Board (CIWMB) approved Covered Electronic Waste (CEW) Collector and Recycler (CEWID: 101732). The ARC facility also operates as a large quantity generator and transporter of hazardous waste under an EPA ID No.(CAR000145714) issued by EPA Region 9 on July 29, 2003, and California EPA ID No. (CAL000273749) issued by the Department of Toxic Substances Control on August 11, 2003. According to the ARC facility's E-Waste Recycling brochure, operations onsite include electronic waste shipping and receiving, disassembly, CRT discharge, and data reporting/ generation of Certificate of Destruction. Disassembled materials are sorted for reuse before the material is processed by recycling recovery machinery. Plastics, glass, metals, PCBs, and CRT are either baled or bulk packed separately for transport to a licensed smelter for disposal. Based on Environmental Strategies' site visits, ARC's operations are conducted indoors. Interior loading docks are used for loading and unloading electronic waste. Environmental Strategies did not observe any hazardous waste storage areas outdoors. However, miscellaneous furniture and packaging materials were stored outdoors on the west side of the building. Trucks and trailers are parked on the west side of the subject property in a paved area.

The subject property lies within the San Gabriel Valley Superfund Site. The San Gabriel Valley Superfund Site is listed on the National Priority List (NPL) and California State Priority List (SPL) databases, and has undergone investigations and remediation for groundwater contaminated with volatile organic compounds (VOCs). The Superfund Site encompasses a large area within the San Gabriel Valley, which includes the subject property. It is likely that

groundwater beneath the property is contaminated as a result of sources within the Superfund Site.

Phase I Update

In reviewing a database search as part of the Phase I work, the subject property was listed on the Well Investigation Program (WIP) database. On September 14, 2005, Environmental Strategies reviewed a file on the subject property at the Los Angeles Regional Water Quality Control Board (Board). The file contained the following information:

- Letter requests dated December 9, 1987 and April 12, 1988 from the Board to Prudential-Feldco (a previous property owner) for a list of chemicals used at the facility.
- Completed Chemical Storage and Use Questionnaire dated May 26, 1988. This questionnaire indicated that operations at the subject property consisted of the manufacturing of school and office supplies and that these operations began in February 1979. The previous owner of the property was Williamhouse-Regency, Inc. The major chemicals in use included hydraulic oil, gear lubricants, and turbine oil (55-gallon drums), propylene glycol (5-gallon pail), butoxy triglycol (55-gallon drums), solvent based inks (55-gallon drums), cleaning solvents (one gallon containers), Amsco solvent (55-gallon drum) which contained 1,1,1-trichloroethane (TCA), and isopropanol (one gallon containers).
- Letter report from the Board dated September 10, 1991 documenting a June 20, 1991 inspection of the subject property by the Board. This letter report is presented in Appendix A. The name of the property was "Pen-Tab Industries." The letter report includes a rough drawing that shows a "previous haz. chem. storage" area on the north side of the building. The report indicated that materials were stored inside and outside without spill containment and recommended that steps be taken to provide such containment. The case was to "...be held in abeyance pending further subsurface investigation in the neighborhood area."
- A follow-up letter to the 1991 inspection by the Board dated October 8, 1996 (Appendix A) indicates that "The facility should be given a no further action notice because there are no signs of any chemical discharges to the ground that were observed and it is Board Staff's opinion that this area is properly managed. As a result no subsurface investigation was deemed necessary."

In addition, additional research was performed concerning the current occupants of the subject property. ARC International Corporation (ARC) is an Approved Collector and Recycler for Covered Electronic Waste (CEW) within California. In their recycling process, electronic equipment is disassembled and sorted. Circuit boards are packed for offsite processing. Plastics are shredded and metals are crushed and sent offsite for recycling. There does not appear to be any continuous outside storage of any raw or processed materials.

Groundwater Investigation Procedures

Based on the results of the Phase I Site Assessment, Environmental Strategies identified upgradient sources, as well as the subject property's location within the San Gabriel Valley Superfund Site, that could potentially have led to contamination of groundwater beneath the subject property. Additionally, Environmental Strategies identified perceived or real impacts upon the surrounding area that could follow development of the subject property as a power plant. Soil and groundwater sampling were recommended to establish a baseline of subject property conditions. This Phase II report describes the groundwater investigation conducted by Environmental Strategies to establish baseline conditions before EME considers purchasing or leasing the subject property.

Groundwater investigation activities were performed by Environmental Strategies on September 7, 2005. The investigation involved installation of three temporary groundwater monitoring wells, collection of three groundwater grab samples, and subsequent abandonment of the temporary groundwater monitoring wells. A non-production well permit was obtained for temporary well construction and abandonment, issued on September 1, 2005 by the Los Angeles County, Environmental Health Division, Water & Sewage/ Mountain & Rural Programs. All work was performed under the direction of a California registered geologist. Drilling activities were performed by West Hazmat Drilling, a C57 licensed drilling contractor (819548) from Anaheim, California.

The three temporary groundwater monitoring wells were installed on September 7, 2005. TMW-1 and TMW-2 were installed in the truck and trailer parking area on the west side of the site, and TMW-3 was installed on the north side of the site in a visitor parking area (Figure 2).

The three temporary groundwater monitoring wells were installed to depths of approximately 35 feet below ground surface (bgs). Groundwater samples were collected from each temporary groundwater monitoring well using clean disposable bailers. The temporary wells were constructed with 2-inch diameter schedule 40 PVC casing and 20 foot screens consisting of 0.020-inch slot size. The well screens were set from the bottom of the wells with RMC No. 3 sand, followed by blank riser to approximately one foot above ground surface. Soils were generally characterized as sandy clays, clayey sands, and sands, and were logged at five-foot intervals using the Unified Soil Classification System (USCS). The boring logs are presented in Appendix B. Soil cuttings were collected in 55-gallon Department of Transportation (DOT) approved drums for disposal in accordance with federal, state, and local regulations.

On September 7, 2005, Environmental Strategies personnel collected groundwater samples from the three temporary groundwater monitoring wells. The depth to water was recorded in each well before sampling. Nitrile gloves were worn by the sampling personnel and gloves were changed between wells to prevent potential cross contamination. Samples were decanted from the samplers into the appropriate laboratory-supplied containers and were immediately chilled in an ice chest (to approximately 4°C). The samples were transported to Centrum Analytical Laboratories, Inc. (Centrum) in Riverside, California with chain-of-custody documentation (Appendix C). Once the temporary monitoring wells were sampled, the PVC casing and screen were removed and hydrated bentonite pellets were used to abandon each well.

Laboratory analyses were performed for VOCs, total petroleum hydrocarbon (TPH) as gasoline (TPHg) and diesel (TPHd), 1,4-dioxane, Title 22 metals, perchlorate, N-nitrosodimethylamine (NDMA), and chromium VI (Cr6), by EPA methods 8260B, 8015B, 8270C, 6010B/7470A, 314.0, 1625, and 7199, respectively. All metal samples were filtered at the laboratory before analysis. Centrum subcontracted Calscience Environmental Laboratories, Inc. of Garden Grove, California to perform the 1,4-dioxane, perchlorate, NDMA, and Cr6 analyses. The groundwater sample analytical report is presented in Appendix D.

Groundwater Investigation Results

Groundwater sampling results are presented in Table 1. Groundwater sample results were compared to the California Primary Maximum Contaminant Levels (MCLs) for drinking water contaminants. An MCL for 1,4-dioxane has not been established; however, the California Department of Health (CDH) has issued a provisional action level of 3 µg/l. The CDH has also issued an action level for NDMA (0.1 g/l). The Public Health Goal (PHG) for drinking water developed by the California state Office of Environmental Health Hazard Assessment (OEHHA) (6 µg/l) was used as a screening level for perchlorate.

Groundwater sampling results for VOCs, metals, Cr6, TPH fuel scan, 1,4-dioxane, perchlorate, and NDMA are presented in Table 1. No VOCs were detected, except for tetrachloroethene (PCE) and trichloroethene (TCE). PCE was detected below the MCL for PCE (5 µg/l) in TMW-1 and TMW-2 at 4.5 µg/l and 4.6 µg/l. PCE was detected above the MCL in TMW-3 at 22 µg/l. TCE was detected below the MCL for TCE (5 µg/l) in TMW-3 at 1.6 µg/l.

All metals were detected below their respective screening levels, except for total chromium and lead. Total chromium was detected above the MCL for chromium (0.05 mg/l) in TMW-1 at 0.056 mg/l. Lead was detected in all three groundwater samples at concentrations exceeding the MCL for lead (0.015 mg/l). Lead was detected in TMW-1, TMW-2, and TMW-3 at 0.073 mg/l, 0.028 mg/l, and 0.027 mg/l, respectively.

TPHd was detected in TMW-3 at 0.48 mg/l. There is no screening level for TPHd in drinking water or groundwater. TPHg, 1,4-dioxane, and NDMA were not detected. Perchlorate was detected above the PHG for perchlorate in TWM-2 at 6.4 µg/l.

The depth to groundwater ranged from approximately 20 feet bgs to 22 feet bgs. Environmental Strategies was unable to determine the groundwater flow direction at the subject property due to the limited data and locations of the temporary groundwater monitoring wells.

Investigation Derived Waste

Soil cuttings generated during temporary groundwater well installation activities were collected in five 55-gallon DOT approved drums for disposal in accordance with federal, state, and local regulations. A composite soil sample from the soil cuttings was collected in pre-cleaned laboratory supplied glass jars. The sample was placed in a plastic bag, and immediately chilled in an ice chest (to approximately 4°C). The sample was transported to Centrum with chain-of-custody documentation (Appendix C).

The composite soil sample (Soil Cuttings) was analyzed for VOCs and Title 22 metals by EPA methods 8260B and 6010B/7471A. The composite soil laboratory analytical results are presented in Appendix C. Pending approval from EME, Environmental Strategies will subcontract a TSDF for transport and disposal of soil cuttings generated during well installation activities at the site.

The composite soil characterization analytic results are presented in Table 2. In accordance with 22 California Code of Regulations (CCR) § 66261.24, laboratory analyses from the composite soil sample were compared to California toxicity characteristic regulatory levels established for inorganic chemicals to determine whether the investigation derived waste is hazardous. All Title 22 metal concentrations were either not detected at their respective reporting limit or were detected below their respective Total Threshold Limit Concentration (TTLC) in the composite soil sample.

Conclusions

Environmental Strategies installed, sampled, and abandoned three temporary groundwater monitoring wells at the site. All VOCs were detected below their respective MCLs, except for PCE. All metals were detected below their respective screening levels, except for total chromium and lead. Lead was detected above the MCL in each of the three temporary groundwater monitoring wells.

TPHd was detected in TMW-3; however, is no screening level for TPHd in drinking water or groundwater. TPHg, 1,4-dioxane, and NDMA were not detected. Perchlorate was detected above the PHG for perchlorate in TMW-1.

Based on the results of the Phase II Groundwater Investigation and the knowledge of previous operations and chemical use at the subject property, Environmental Strategies concludes that it is unlikely that there here have been impacts upon groundwater beneath the subject property from past operations. The detections of PCE, TCE, and perchlorate are likely due to offsite sources associated with the San Gabriel Valley Superfund Site and there is a proposed remedy to pump and treat contaminated groundwater within the Valley; therefore, corrective actions for their presence in groundwater beneath the property is not likely to be required. The detection of chromium and lead above their respective MCLs also does not appear to represent conditions that would require corrective actions to the groundwater beneath the property. However, the current processing of electronic waste at the property by ARC could include the handling of materials containing lead and chromium. It does not appear that ARC stores electronic raw or processed materials outside on a continuous basis and it is not considered likely that lead or chromium bearing materials handled by ARC are a source of the lead and chromium found in the groundwater beneath the property.

In the event that future construction on the subject property would require dewatering and collection of groundwater and if the groundwater is considered contaminated through additional characterization, the groundwater could be collected in Baker tanks for batch treatment and discharged either to a publicly owned treatment works (preferred), or, alternatively, through a National Pollutant Discharge Elimination System (NPDES) permit as construction derived wastewater.

It is important to recognize these baseline conditions represent existing impacts to the groundwater from PCE, chromium, lead, and perchlorate. The groundwater sampling results confirm the recognized environmental condition at the subject property noted in the previous Phase I report.

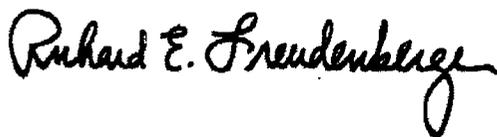
Recommendations

Based on the information obtained from the June 20, 1991 property inspection by the Board, the detections of lead and chromium in the groundwater, and the potential that ARC may be handling lead and chromium bearing materials, it is recommended that several near surface soil samples be collected along the north side of the building and analyzed for VOCs and Title 22 metals.

References

- ARC International Corporation. 2005. E-Waste Recycling Brochure.
<http://www.colorsupplies.com/arc.pdf>. Accessed September 15, 2005.
- Environmental Strategies Consulting, LLC. Phase I Environmental Site Assessment of 911 Bixby Drive, City of Industry, California. May 10, 2005.
- California Regional Water Quality Control Board, Los Angeles Region. April 12, 1988. Chemical Use Questionnaire (File No. AB105.229).
- California Regional Water Quality Control Board, Los Angeles Region. May 26, 1998. Chemical Storage and Use Questionnaire. Prudential-Feldco of California, Inc.
- California Regional Water Quality Control Board, Los Angeles Region. September 10, 1991. Site Inspection—Well Investigation Program (File No. 105.0229).
- California Regional Water Quality Control Board, Los Angeles Region. September 13, 1996. Summary of Site History, Prudential FeldCo.

Sincerely yours,



Richard E. Freudenberger
Partner

SNH:snh:gmb

G:\\$Client\MISSION\Development Locations\Industry\Groundwater Investigation\Final Report.doc

cc/enclosures: Dereck Benham, Edison Mission Energy

List of Figures:

Figure 1 – Site Location

Figure 2 – Temporary Groundwater Monitoring Well Locations

List of Tables:

Table 1 – Groundwater Analytical Results

Table 2 – Composite Soil Characterization Analytical Results

List of Appendices:

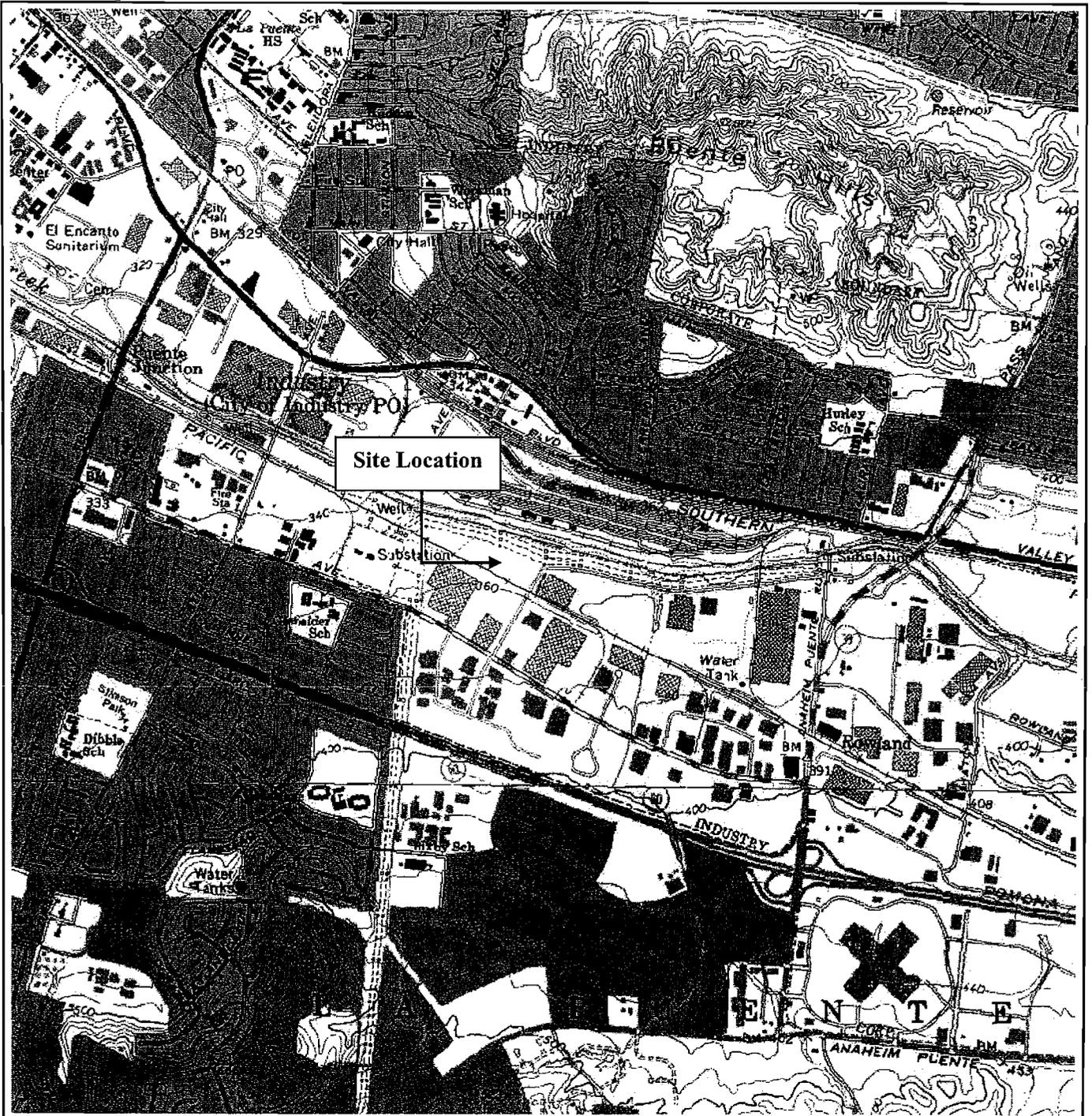
Appendix A – Los Angeles Regional Water Quality Control Board Letters

Appendix B – Soil Boring Logs

Appendix C – Chain-of-Custody Documentation

Appendix D – Groundwater Sampling Results

Figure 1
Site Location



Reference

7.5 Minute Series Topographic Quadrangle
City of Industry, California
Photorevised 1953 Scale 1:24,000



Quadrangle Location



Scale in Feet



ENVIRONMENTAL STRATEGIES CONSULTING LLC
2025 GATEWAY PLACE, SUITE 280
SAN JOSE, CALIFORNIA 95110
408-453-6100

Figure 1
Site Location
911 Bixby Street
City of Industry, California

Figure 2

Temporary Groundwater Monitoring Well Locations

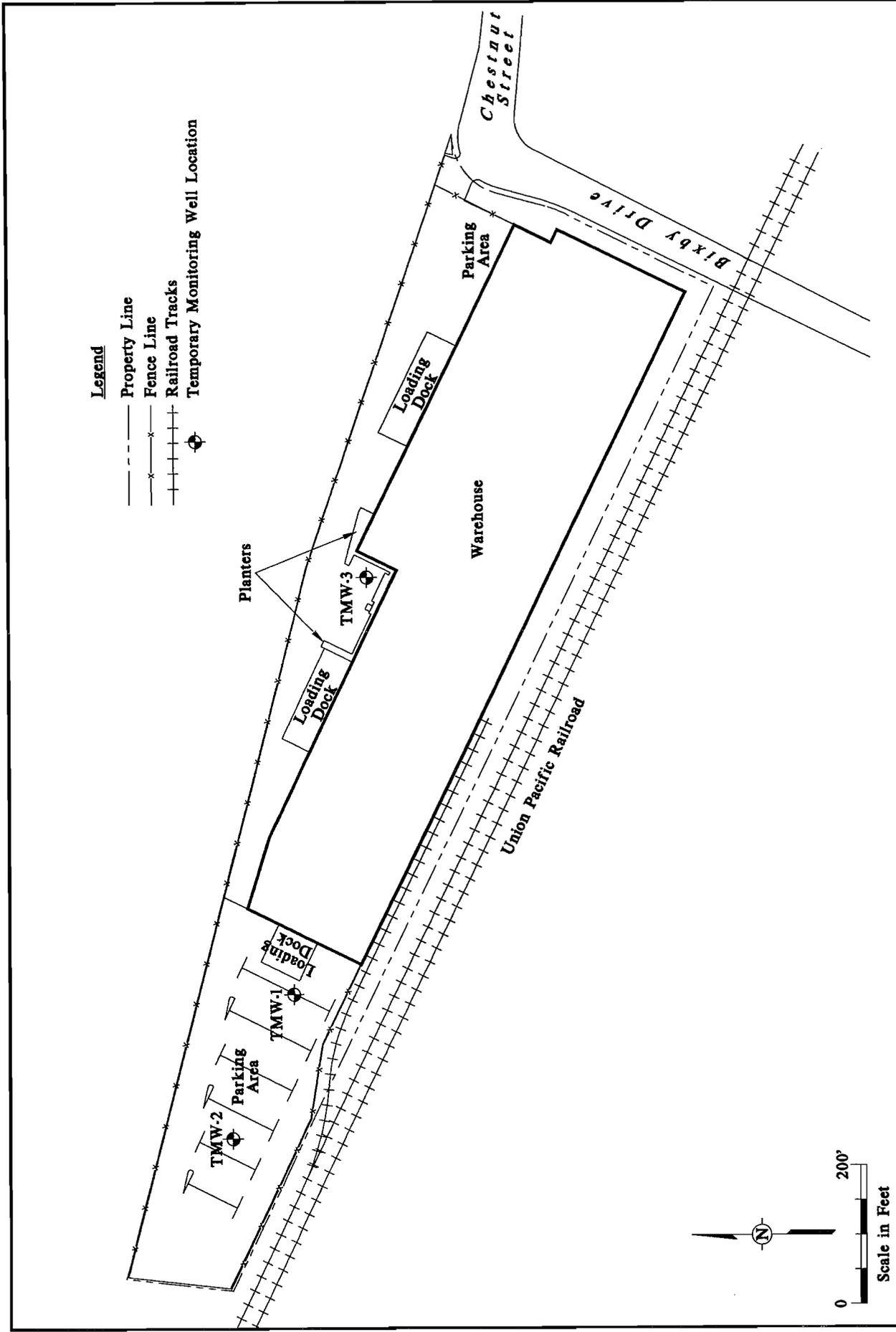


Figure 2
 Temporary Groundwater Monitoring Well Locations
 911 Bixby Drive
 City of Industry, California

ENVIRONMENTAL STRATEGIES CONSULTING LLC
 2025 GATEWAY PLACE SUITE 280
 SAN JOSE, CALIFORNIA 95110
 (408) 453-6100



Table 1

Groundwater Analytical Results

Table 1

Groundwater Analytical Results
911 Bixby Drive
City of Industry, California
September 7, 2005

<u>Parameter</u>	MCL	TMW-1	TMW-2	TMW-3
Volatile Organic Compounds (µg/l)				
Acetone	NL	50 U	50 U	50 U
tert-Amyl Methyl Ether (TAME)	NL	5.0 U	5.0 U	5.0 U
Benzene	1	0.5 U	0.5 U	0.5 U
Bromobenzene	NL	1.0 U	1.0 U	1.0 U
Bromochloromethane	NL	1.0 U	1.0 U	1.0 U
Bromodichloromethane	NL	0.5 U	0.5 U	0.5 U
Bromoform	NL	0.5 U	0.5 U	0.5 U
Bromomethane	NL	2.0 U	2.0 U	2.0 U
tert-Butanol (TBA)	NL	10 U	10 U	10 U
2-Butanone (MEK)	NL	10 U	10 U	10 U
n-Butylbenzene	NL	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	NL	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	NL	0.5 U	0.5 U	0.5 U
Carbon disulfide	NL	10 U	10 U	10 U
Carbon tetrachloride	0.5	0.5 U	0.5 U	0.5 U
Chlorobenzene	70	0.5 U	0.5 U	0.5 U
Chloroethane	NL	0.5 U	0.5 U	0.5 U
Chloroform	NL	0.5 U	0.5 U	0.5 U
Chloromethane	NL	2.0 U	2.0 U	2.0 U
2-Chlorotoluene	NL	0.5 U	0.5 U	0.5 U
4-Chlorotoluene	NL	0.5 U	0.5 U	0.5 U
Dibromochloromethane	NL	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	NL	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	NL	10 U	10 U	10 U
Dibromomethane	NL	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	600	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	NL	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	5	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	NL	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	6	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	6	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	10	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	5	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	NL	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane	NL	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	NL	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.5	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.5	0.5 U	0.5 U	0.5 U
Diisopropyl Ether (DIPE)	NL	5.0 U	5.0 U	5.0 U
Ethylbenzene	300	0.5 U	0.5 U	0.5 U
Ethyl tert-Butyl Ether (EtBE)	NL	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	NL	0.5 U	0.5 U	0.5 U

Table 1

Groundwater Analytical Results
911 Bixby Drive
City of Industry, California
September 7, 2005

	MCL	TMW-1	TMW-2	TMW-3
Volatile Organic Compounds (µg/l)				
2-Hexanone	NL	10 U	10 U	10 U
Isopropyl benzene	NL	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	NL	0.5 U	0.5 U	0.5 U
Methylene chloride	NL	50 U	50 U	50 U
4-Methyl-2-pentanone	NL	5.0 U	5.0 U	5.0 U
Methyl-tert Butyl Ether (MtBE)	13	1.0 U	1.0 U	1.0 U
Napthalene	NL	0.5 U	0.5 U	0.5 U
n-Propylbenzene	NL	0.5 U	0.5 U	0.5 U
Styrene	100	0.5 U	0.5 U	0.5 U
1,1,1,2-Tetrachloroethane	NL	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	1	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	4.5	4.6	2.2
Toluene	150	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	NL	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	5	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	200	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	5	0.5 U	0.5 U	0.5 U
Trichloroethene	5	0.5 U	0.5 U	1.6
1,2,3-Trichloropropane	NL	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	150	0.5 U	0.5 U	0.5 U
Trichlorotrifluoroethane	NL	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	NL	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	NL	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.5	0.5 U	0.5 U	0.5 U
Xylenes, m-, p-	1,750	1.0 U	1.0 U	1.0 U
Xylenes, o-	1,750	0.5 U	0.5 U	0.5 U
Metals (mg/l)				
Antimony	0.006	0.20 U	0.10 U	0.10 U
Arsenic	0.05	0.040 U	0.020 U	0.020 U
Barium	1	0.11	0.069	0.10
Beryllium	0.004	0.020 U	0.010 U	0.010 U
Cadmium	0.005	0.020 U	0.010 U	0.010 U
Chromium (total)	0.05	0.056	0.010 U	0.015
Chromium VI	0.05	0.0029	0.0015	0.0010 U
Cobalt	NL	0.020 U	0.010 U	0.024
Copper	1.3 (a)	0.060 U	0.030 U	0.030 U
Lead	0.015 (a)	0.073	0.028	0.027
Mercury	0.002	0.0004 U	0.0004 U	0.0004 U
Molybdenum	NL	0.20 U	0.10 U	0.10 U
Nickel	0.1	0.059	0.046	0.064
Selenium	0.05	0.20 U	0.10 U	0.10 U
Silver	0.1 (b)	0.080 U	0.040 U	0.040 U
Thallium	0.002	0.20 U	0.10 U	0.10 U
Vanadium	NL	0.20 U	0.10 U	0.10 U
Zinc	5 (b)	0.40 U	0.20 U	0.20 U

Table 1

**Groundwater Analytical Results
911 Bixby Drive
City of Industry, California
September 7, 2005**

	MCL	TMW-1	TMW-2	TMW-3
Petroleum Hydrocarbons (mg/l)				
TPHd	NL	0.40 U	0.40 U	0.48
TPHg	NL	0.50 U	0.50 U	0.50 U
1,4-dioxane (µg/l)	3 (c)	2.0 U	2.0 U	2.0 U
Perchlorate (µg/l)	6 (d)	2.0 U	6.4	3.4
NDMA (µg/l)	10,000 (c)	2.0 U	2.0 U	2.0 U

a/ California Code of Regulations § 64672.3 lead and copper action levels

b/ California Secondary MCL

c/ California Department of Health provisional action level

d/ Perchlorate Public Health Goal for drinking water developed by the Office of Environmental Health Hazard Assessment

e/ Highlighted values indicate an exceedance of the California MCL.

NL/ not listed

U/ Compound not detected above method detection limit

Table 2

Composite Soil Characterization Analytical Results

Table 2

Composite Soil Characterization Analytical Results
911 Bixby Drive
City of Industry, California
September 7, 2005

<u>Parameter</u>	Soil Cuttings
Volatile Organic Compounds (mg/kg)	
Acetone	0.050 U
tert-Amyl Methyl Ether (TAME)	0.005 U
Benzene	0.001 U
Bromobenzene	0.005 U
Bromochloromethane	0.005 U
Bromodichloromethane	0.001 U
Bromoform	0.005 U
Bromomethane	0.005 U
tert-Butanol (TBA)	0.020 U
2-Butanone (MEK)	0.010 U
n-Butylbenzene	0.002 U
sec-Butylbenzene	0.002 U
tert-Butylbenzene	0.002 U
Carbon disulfide	0.010 U
Carbon tetrachloride	0.001 U
Chlorobenzene	0.001 U
Chloroethane	0.005 U
Chloroform	0.002 U
Chloromethane	0.001 U
2-Chlorotoluene	0.002 U
4-Chlorotoluene	0.002 U
Dibromochloromethane	0.002 U
1,2-Dibromoethane	0.002 U
1,2-Dibromo-3-chloropropane	0.010 U
Dibromomethane	0.001 U
1,2-Dichlorobenzene	0.001 U
1,3-Dichlorobenzene	0.002 U
1,4-Dichlorobenzene	0.002 U
Dichlorodifluoromethane	0.005 U
1,1-Dichloroethane	0.001 U
1,2-Dichloroethane	0.001 U
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.002 U
trans-1,2-Dichloroethene	0.002 U
1,2-Dichloropropane	0.001 U
1,3-Dichloropropane	0.001 U
2,2-Dichloropropane	0.001 U
1,1-Dichloropropene	0.001 U
cis-1,3-Dichloropropene	0.001 U
trans-1,3-Dichloropropene	0.001 U
Diisopropyl Ether (DIPE)	0.005 U
Ethylbenzene	0.001 U
Ethyl tert-Butyl Ether (EtBE)	0.005 U
Hexachlorobutadiene	0.001 U

Table 2

Composite Soil Characterization Analytical Results
911 Bixby Drive
City of Industry, California
September 7, 2005

Soil Cuttings	
Volatile Organic Compounds (mg/kg)	
2-Hexanone	0.010 U
Isopropyl benzene	0.001 U
p-Isopropyltoluene	0.002 U
Methylene chloride	0.050 U
4-Methyl-2-pentanone	0.010 U
Methyl-tert Butyl Ether (MtBE)	0.005 U
Napthalene	0.002 U
n-Propylbenzene	0.001 U
Styrene	0.001 U
1,1,1,2-Tetrachloroethane	0.001 U
1,1,2,2-Tetrachloroethane	0.002 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
1,2,3-Trichlorobenzene	0.002 U
1,2,4-Trichlorobenzene	0.002 U
1,1,1-Trichloroethane	0.001 U
1,1,2-Trichloroethane	0.003 U
Trichloroethene	0.001 U
1,2,3-Trichloropropane	0.003 U
Trichlorofluoromethane	0.001 U
Trichlorotrifluoroethane	0.005 U
1,2,4-Trimethylbenzene	0.001 U
1,3,5-Trimethylbenzene	0.001 U
Vinyl chloride	0.002 U
Xylenes, m-, p-	0.002 U
Xylenes, o-	0.001 U
Metals (mg/kg)	
Antimony	5.0 U
Arsenic	4.4
Barium	110
Beryllium	0.50 U
Cadmium	0.66
Chromium (total)	16
Cobalt	7.3
Copper	19
Lead	5.6
Mercury	0.04
Molybdenum	5.0 U
Nickel	18
Selenium	5.0 U
Silver	2.0 U
Thallium	10 U
Vanadium	23
Zinc	47

U/ Compound not detected above method detection limit

Appendix A

Los Angeles Regional Water Quality Control Board Letters

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION

1 CENTRE PLAZA DRIVE
DUNTEREY PARK, CA 91734-2156
3) 266-7500



September 10, 1991

Mr. Martin Getchell
Pen-Tab Industries
911 Bixby Drive, P.O. Box 790
Industry, CA 91747-0790

SITE INSPECTION--WELL INVESTIGATION PROGRAM
(FILE NO. 105.0229)

On June 20, 1991 your facility was inspected by a member of this Regional Board's staff. The inspection mainly focused on chemical storage, usage, and disposal at your facility.

During the site visit, it was observed that approximately twenty barrels of different oils and inks were stored in-door, on concrete; and at least three barrels apparently empty or containing chemicals not in use were stored out-door, all without proper spill containment. Bulk liquid chemicals/chemical wastes must be stored under shelter, on concrete, and with proper containment, such as spill pans or surrounding concrete berm. Contact Los Angeles County Department of Health Services and the local Fire Department for details.

This case will be held in abeyance pending further subsurface investigation in the neighborhood area. However, you are requested to notify this Board of any change in your operation, including storage and handling of chemicals or processing and disposal of waste. It should be noted that this letter in no way releases you from any chemical and/or waste handling requirements of this or any other agency.

Please contact Samuel Yu of our staff at (213)266-7541 if you have any questions, and address all correspondence to his attention.

A handwritten signature in dark ink, appearing to read "Roy R. Sakaida", is written over a horizontal line.

ROY R. SAKAIDA
Senior Water Resources
Control Engineer

cc: Neil Ziemba, USEPA, Region IX

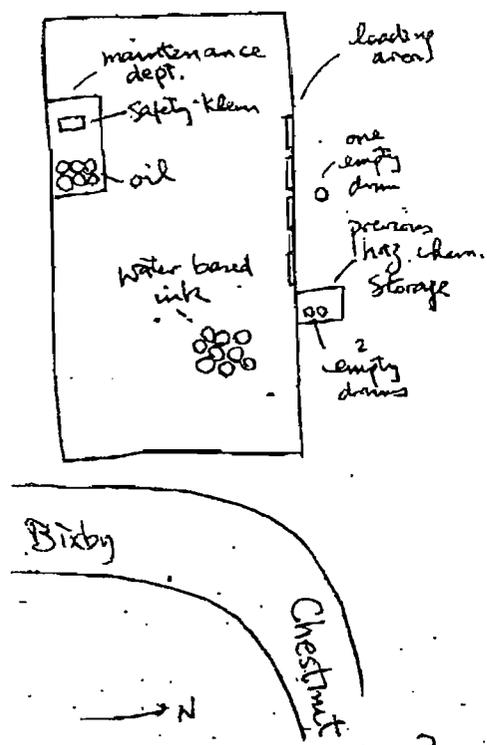
INSPECTION CHECKLIST

SITE NAME PEN-TAB INDUSTRIES 1803 ID NO. 105.0229
 ADDRESS 911 BIXBY DRIVE PSD _____
INDUSTRY CA 91747-0790 SIC CODE _____
 CONTACT MARTIN GETCHELL TELEPHONE NO. (818) 961-7231

	ACTIVITIES		PERMITS		PERMIT NOS.
	yes	no	yes	no	
GENERATOR	✓	—	—	—	_____
TREATMENT	—	✓	—	—	_____
STORAGE	—	✓	—	—	_____
DISPOSAL	—	✓	—	—	_____
TRANSPORTER	—	✓	—	—	_____

OWNERSHIP: FEDERAL _____ STATE _____ LOCAL AGCY _____ PRIVATE

SITE DESCRIPTION:



Old name: Prudential-Feldco of California, Inc.
 Same company now use the "logo name" Pen-Tab
 Manufacture School and office supplies.
 The main process that use bulk liquid
 chemicals is printing. They use different
 water-based & solvent-based inks and
 oils for the machines. All liquid chemicals
 were stored indoor on concrete. A previous
 outdoor hazardous material storage area
 was empty except for two empty drums.
 The condition of this area is fair.
 Safety-Kleen solvent is used in the maintenance
 department.

PRIORITY 3
 INSPECTOR Sy

DATE 6/20/91

CHECKLIST (2)

		YES	NO
QUESTIONNAIRES			
Submitted		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Returned Complete/Completed		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Copy Left For Submittal		<input type="checkbox"/>	<input checked="" type="checkbox"/>
OVERALL FACILITY IMPRESSIONS			
Clean		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good Housekeeping Practices		<input checked="" type="checkbox"/>	<input type="checkbox"/>
No Evidence of Discharge		<input checked="" type="checkbox"/>	<input type="checkbox"/>
STORAGE AREAS			
	yes/no		
Underground Tanks:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
permits	_____		
tested for leaks	_____		
under monitoring program	_____		
Above Ground Tanks:		<input type="checkbox"/>	<input checked="" type="checkbox"/>
good condition	_____		
no appearance of discharges	_____		
Other Storage:		<input checked="" type="checkbox"/>	<input type="checkbox"/>
covered	<input checked="" type="checkbox"/>		
approved containment	<input checked="" type="checkbox"/>		
All Materials listed in Questionnaire		<input checked="" type="checkbox"/>	<input type="checkbox"/>
PROCESS, HANDLING, DISPOSAL			
Potential for Leaks, Spills, or Discharges		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clarifier(s)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sumps(s)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Solvents		<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMMENTS (Make sure questionnaires are complete, use another page if necessary for your comments):

- ① Hold. because of the large quantity of bulk liquid chemicals & solvent usage
- ② Recommend improvement in chemical storage

INSPECTOR _____

Ej

DATE _____

6/20/91

Date: September 13, 1990
File No.: 105.0229
Case Name: Prudential FeldCo.
Subject: Summary of Site History

Chemical Questionnaire (CQ)

An CQ was mailed on December 9, 1987. The facility information included the following:

Standard Industrial Classification Code (SIC): Unk.
Generator Number (EPA/STATE): Unk.
Brief Description of Operations: Manufacturing of school and office supplies.
Sewer System: Municipal, and the sewer system used in the past has not changed.
History (Date of Operations and Previous Owners): 1979

The chemicals stored on site included the following: See attached list on the chemical questionnaire.

Initial Site Inspection (ISI)

An ISI was conducted on June 20, 1991. The following areas of concern were identified as potential source areas of contamination:

Storage Area. Twenty barrels of different oils and inks were stored indoors on concrete without proper containment.

Inspector's Notes. The facility was clean with good housekeeping practices and no evidence of discharge.

Conclusion

The facility should be given a no further action notice because there are no signs of any chemical discharges to the ground that were observed and it is Board Staff's opinion that this area is properly managed. As a result no subsurface investigation was deemed necessary.

Appendix B
Soil Boring Logs

Boring Log: TMW-1

Project: Edison Mission Energy

Project No.: 218329

Location: City of Industry, California

Completion Date: September 07, 2005

Surface Elevation (feet AMSL*): Not Determined

Total Depth (feet): 35

Borehole Diameter (inches): 8



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						<i>Asphalt</i>
						<i>Baserock</i>
1				100		
2						
3						
4						<i>Sandy Clay (CL)</i> Brown (7.5YR 4/3) sandy clay; soft; moist.
5						
6						
7						
8				100		
9						
10						<i>Sandy Clay (CL)</i> Very dark gray (7.5YR 3/1) sandy clay, medium stiff, moist.
11						
12						
13						
14				100		
15						<i>Sandy Clay (CL)</i> Brown (7.5YR 4/2) sandy clay; medium stiff; dry.
16						
17						
18						
19				100		
20						<i>Sandy Clay (CL)</i> Brown (7.5YR 4/2) sandy clay; soft; moist.

Geologist(s): Sharon Harichandran
Subcontractor: West Hazmat Drilling
Driller/Operator: Oscar
Method: Hollow Stem Auger

*AMSL = Above mean sea level

Boring Log: TMW-1

Project: Edison Mission Energy

Project No.: 218329

Location: City of Industry, California

Completion Date: September 07, 2005

Surface Elevation (feet AMSL*): Not Determined

Total Depth (feet): 35

Borehole Diameter (inches): 8



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
22	5		· · · · ·	100		
24			· · · · ·			<i>Sandy Clay (CL)</i> Very dark gray (7.5YR 3/1) sandy clay; very soft; moist.
26	6		· · · · ·	100		
28			· · · · ·			<i>Sandy Clay (CL)</i> Brown (7.5YR 4/3) sandy clay; very soft; moist.
30	7		· · · · ·	100		
32			· · · · ·			<i>Sandy Clay (CL)</i> Brown (7.5YR 4/2) sandy clay; very soft; moist.
34			· · · · ·			
36						Bottom of Boring at 35 feet
38						
40						

Geologist(s): Sharon Harichandran
Subcontractor: West Hazmat Drilling
Driller/Operator: Oscar
Method: Hollow Stem Auger

*AMSL = Above mean sea level

Boring Log: TMW-2

Project: Edison Mission Energy

Project No.: 218329

Location: City of Industry, California

Completion Date: September 07, 2005

Surface Elevation (feet AMSL*): Not Determined

Total Depth (feet): 35

Borehole Diameter (inches): 8



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						<i>Asphalt</i>
						<i>Baserock</i>
1				100		
2						
3						
4						<i>Sandy Clay (CL)</i> Dark brown (7.5YR 3/2) sandy clay; very soft; moist.
5						
6						
7						
8						
9						
10						<i>Sandy Clay (CL)</i> Dark brown (7.5YR 3/4) sandy clay; very soft; moist.
11						
12						
13						
14						<i>Sandy Clay (CL)</i> Brown (7.5YR 4/3) sandy clay; soft; moist.
15						
16						
17						
18						
19						
20						<i>Sandy Clay (CL)</i> Brown (7.5YR 4/3) sandy clay; soft; dry.

Geologist(s): Sharon Harichandran
 Subcontractor: West Hazmat Drilling
 Driller/Operator: Oscar
 Method: Hollow Stem Auger

*AMSL = Above mean sea level

Boring Log: TMW-2

Project: Edison Mission Energy

Project No.: 218329

Location: City of Industry, California

Completion Date: September 07, 2005

Surface Elevation (feet AMSL*): Not Determined

Total Depth (feet): 35

Borehole Diameter (inches): 8



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
22	5		.	100		<i>Sandy Clay (CL)</i> Brown (7.5YR 4/3) sandy clay; soft; moist.
24						
26	6		.	100		<i>Sandy Clay (CL)</i> Brown (7.5YR 4/3) sandy clay; very soft; moist.
28						
30	7		.	100		<i>Sandy Clay (CL)</i> Dark brown (7.5YR 3/2) sandy clay; very soft; moist
32						
34						
36						Bottom of Boring at 35 feet
38						
40						

Geologist(s): Sharon Harichandran
Subcontractor: West Hazmat Drilling
Driller/Operator: Oscar
Method: Hollow Stem Auger

*AMSL = Above mean sea level

Boring Log: TMW-3

Project: Edison Mission Energy

Project No.: 218329

Location: City of Industry, California

Completion Date: September 07, 2005

Surface Elevation (feet AMSL*): Not Determined

Total Depth (feet): 35

Borehole Diameter (inches): 8



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
						Ground Surface
						Asphalt
						Baserock
1				100		
2						
3						
4						
5						
6				100		Sandy Clay (CL) Black (7.5YR 2.5/1) sandy clay; medium stiff; moist.
7						
8						
9						
10				100		Sandy Clay (CL) Black (7.5YR 2.5/1) sandy clay; medium stiff; moist.
11						
12						
13						
14				100		Sandy Clay (CL) Brown (7.5YR 4/3) sandy clay; medium stiff; moist.
15						
16						
17						
18				100		Sandy Clay (CL) Brown (7.5YR 4/4) sandy clay; stiff; moist.
19						
20						

Geologist(s): Sharon Harichandran
 Subcontractor: West Hazmat Drilling
 Driller/Operator: Oscar
 Method: Hollow Stem Auger

*AMSL = Above mean sea level

Boring Log: TMW-3

Project: Edison Mission Energy

Project No.: 218329

Location: City of Industry, California

Completion Date: September 07, 2005

Surface Elevation (feet AMSL*): Not Determined

Total Depth (feet): 35

Borehole Diameter (inches): 8



Sample Data					Subsurface Profile	
Depth	Sample/Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description
22	5		-	100		
24						
26	6		-	100		<i>Clayey Sand (SC)</i> Brown (7.5YR 4/4) clayey sand; moist.
28						
30	7		-	100		<i>Well-Graded Sand (SW)</i> Brown (10YR 5/3) sand; wet.
32						
34						
36						Bottom of Boring at 35 feet
38						
40						

Geologist(s): Sharon Harichandran
 Subcontractor: West Hazmat Drilling
 Driller/Operator: Oscar
 Method: Hollow Stem Auger

*AMSL = Above mean sea level

Appendix C

Chain-of-Custody Documentation

Appendix D

Groundwater Sampling Results



**Centrum
Analytical
Laboratories, Inc.**

CERTIFIED HAZARDOUS WASTE TESTING MOBILE & IN HOUSE LABORATORIES

Client: Environmental Strategies
2025 Gateway Place, Ste. 280
San Jose, CA 95110

Date Sampled: 09/07/05
Date Received: 09/07/05
Job Number: 26842

Project: 911 Bixby Dr., City of Industry, CA

CASE NARRATIVE

The following information applies to samples which were received on 09/07/05:

The samples were received at the laboratory chilled and sample containers were intact.

The 1,4-Dioxane, Perchlorate, NDMA and Hex Chrome analyses were subcontracted to ELAP Lab #1230. The original report is attached to, but is not part of, this report.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested. The date of issue for this report is 09/12/05.

This report is a re-issue. The data herein is a revised reporting of the results for these analyses and supersedes any other version issued previously.

The date of re-issue for this report is 09/14/05.

Report approved by:

Tom Wilson
Laboratory Director

ELAP Lab# 2419, 2479, 2527, 2373, 2562

RL: Reporting Limit -- The lowest level at which the compound can be reliably detected under normal laboratory conditions.
ND: Not Detected -- The compound was analyzed for, but was not found to be present at or above the Reporting Limit.
NA: Not Analyzed -- This compound was not on the list of compounds requested for analysis.

Metals by EPA 6010B and EPA 7471A

Client:	Environmental Strategies	Date Sampled:	09/07/05
Project:	911 Bixby Dr., City of Industry, CA	Date Received:	09/07/05
Job No:	26842	Date Digested:	09/08/05
Matrix:	Soil	Date Analyzed:	09/08/05
Analyst:	TLB	Batch Number:	6010S3443 7471S1280

Metals	Method	Sample ID:	Blank	Soil Cuttings
		RL	mg/Kg	mg/Kg
Antimony	6010B	5.0	ND	ND
Arsenic	6010B	1.0	ND	4.4
Barium	6010B	0.50	ND	110
Beryllium	6010B	0.50	ND	ND
Cadmium	6010B	0.50	ND	0.66
Chromium	6010B	0.50	ND	16
Cobalt	6010B	0.50	ND	7.3
Copper	6010B	1.0	ND	19
Lead	6010B	1.0	ND	5.6
Molybdenum	6010B	5.0	ND	ND
Nickel	6010B	1.0	ND	18
Selenium	6010B	5.0	ND	ND
Silver	6010B	2.0	ND	ND
Thallium	6010B	10	ND	ND
Vanadium	6010B	5.0	ND	23
Zinc	6010B	10	ND	47
Mercury	7471A	0.02	ND	0.04

QC Sample Report - Metals by EPA 6010B and EPA 7471A

Matrix: Soil

Metals by EPA 6010B

Batch Number: 6010S3443

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: 26840-3

Analytical Notes:

Compound	Batch Accuracy Results				Batch Precision Results				
	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Antimony	50	104	75 - 125	Pass	42.66	45.92	7%	20%	Pass
Arsenic	50	103	75 - 125	Pass	60.68	57.29	6%	20%	Pass
Barium	50	87	75 - 125	Pass	127.8	126.2	1%	20%	Pass
Beryllium	50	98	75 - 125	Pass	45.92	47.13	3%	20%	Pass
Cadmium	50	100	75 - 125	Pass	44.30	43.02	3%	20%	Pass
Chromium	50	102	75 - 125	Pass	69.00	63.73	8%	20%	Pass
Cobalt	50	102	75 - 125	Pass	60.27	50.22	18%	20%	Pass
Copper	50	99	75 - 125	Pass	98.82	86.49	13%	20%	Pass
Lead	50	98	75 - 125	Pass	113.4	103.2	9%	20%	Pass
Molybdenum	50	100	75 - 125	Pass	41.70	43.02	3%	20%	Pass
Nickel*	50	102	75 - 125	Pass	51.22	51.54	1%	20%	Pass
Selenium	50	98	75 - 125	Pass	44.64	45.94	3%	20%	Pass
Silver	50	121	75 - 125	Pass	57.14	56.83	1%	20%	Pass
Thallium	50	100	75 - 125	Pass	44.81	44.20	1%	20%	Pass
Vanadium	50	101	75 - 125	Pass	79.50	75.97	5%	20%	Pass
Zinc*	50	103	75 - 125	Pass	51.64	51.28	1%	20%	Pass

*Unable to use the MS/MSD pair for this analyte due to sample matrix; the LCS/LCSD pair was used to provide precision data for this analytical batch.

Mercury by EPA 7471A

Batch Number: 7471S1280

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: 26838-5

Analytical Notes:

Compound	Batch Accuracy Results				Batch Precision Results				
	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Mercury	0.42	98	75 - 125	Pass	0.456	0.475	4%	20%	Pass

MS: Matrix Spike

LCS: Laboratory Control Sample

MSD: Matrix Spike Duplicate

LCSD: Laboratory Control Sample Duplicate



Metals by EPA 6010B and EPA 7470A

Client: Environmental Strategies
 Project: 911 Bixby Dr., City of Industry, CA
 Job No: 26842
 Matrix: Water
 Analyst: TLB

Date Sampled: 09/07/05
 Date Received: 09/07/05
 Date Digested: 09/08-09/05
 Date Analyzed: 09/09/05
 Batch Number: 6010W3444
 7470W1281

Metals	Method #	Sample ID:	Blank	TMW-2	TMW-3
		RL	mg/L	mg/L	mg/L
Antimony	6010B	0.10	ND	ND	ND
Arsenic	6010B	0.020	ND	ND	ND
Barium	6010B	0.010	ND	0.069	0.10
Beryllium	6010B	0.010	ND	ND	ND
Cadmium	6010B	0.010	ND	ND	ND
Chromium	6010B	0.010	ND	ND	0.015
Cobalt	6010B	0.010	ND	ND	0.024
Copper	6010B	0.030	ND	ND	ND
Lead	6010B	0.020	ND	0.028	0.027
Molybdenum	6010B	0.10	ND	ND	ND
Nickel	6010B	0.020	ND	0.046	0.064
Selenium	6010B	0.10	ND	ND	ND
Silver	6010B	0.040	ND	ND	ND
Thallium	6010B	0.10	ND	ND	ND
Vanadium	6010B	0.10	ND	ND	ND
Zinc	6010B	0.20	ND	ND	ND
Mercury	7470A	0.0004	ND	ND	ND

Metals by EPA 6010B and EPA 7470A

Client: Environmental Strategies
 Project: 911 Bixby Dr., City of Industry, CA
 Job No: 26842
 Matrix: Water
 Analyst: TLB

Date Sampled: 09/07/05
 Date Received: 09/07/05
 Date Digested: 09/08-09/05
 Date Analyzed: 09/09/05
 Batch Number: 6010W3444
 7470W1281

Sample ID: TMW-1			
Metals	Method #	RL	mg/L
Antimony	6010B	0.20	ND
Arsenic	6010B	0.040	ND
Barium	6010B	0.020	0.11
Beryllium	6010B	0.020	ND
Cadmium	6010B	0.020	ND
Chromium	6010B	0.020	0.056
Cobalt	6010B	0.020	ND
Copper	6010B	0.060	ND
Lead	6010B	0.040	0.073
Molybdenum	6010B	0.20	ND
Nickel	6010B	0.040	0.059
Selenium	6010B	0.20	ND
Silver	6010B	0.080	ND
Thallium	6010B	0.20	ND
Vanadium	6010B	0.20	ND
Zinc	6010B	0.40	ND
Mercury	7470A	0.0004	ND

QC Sample Report - Metals by EPA 6010B and EPA 7470A

Matrix: Water

Metals by EPA 6010B

Batch Number: 6010W3444

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: Laboratory Control Sample

Analytical Notes:

Compound	Batch Accuracy Results				Batch Precision Results				
	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Antimony	1.0	94	75 - 125	Pass	0.945	0.951	1%	20%	Pass
Arsenic	1.0	94	75 - 125	Pass	0.937	0.928	1%	20%	Pass
Barium	1.0	76	75 - 125	Pass	0.761	0.775	2%	20%	Pass
Beryllium	1.0	98	75 - 125	Pass	0.982	0.981	0%	20%	Pass
Cadmium	1.0	97	75 - 125	Pass	0.966	0.991	3%	20%	Pass
Chromium	1.0	95	75 - 125	Pass	0.945	0.960	2%	20%	Pass
Cobalt	1.0	97	75 - 125	Pass	0.973	0.993	2%	20%	Pass
Copper	1.0	98	75 - 125	Pass	0.976	0.979	0%	20%	Pass
Lead	1.0	97	75 - 125	Pass	0.970	0.970	0%	20%	Pass
Molybdenum	1.0	95	75 - 125	Pass	0.951	0.952	0%	20%	Pass
Nickel	1.0	99	75 - 125	Pass	0.989	1.011	2%	20%	Pass
Selenium	1.0	92	75 - 125	Pass	0.916	0.937	2%	20%	Pass
Silver	1.0	132	75 - 125	Pass*	1.319	1.340	2%	20%	Pass
Thallium	1.0	95	75 - 125	Pass	0.952	0.988	4%	20%	Pass
Vanadium	1.0	96	75 - 125	Pass	0.959	0.975	2%	20%	Pass
Zinc	1.0	106	75 - 125	Pass	1.061	1.072	1%	20%	Pass

* No hits reported for this analyte. Since LCS recovery was out high, data not affected.

Mercury by EPA 7470A

Batch Number: 7470W1281

Spike Sample ID: Laboratory Control Sample

MS/MSD Sample ID: TMW-2

Analytical Notes:

Compound	Batch Accuracy Results				Batch Precision Results				
	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Mercury	0.010	100	75 - 125	Pass	0.0096	0.0100	4%	20%	Pass

MS: Matrix Spike

LCS: Laboratory Control Sample

MSD: Matrix Spike Duplicate

LCSD: Laboratory Control Sample Duplicate

QC Sample Report - Extractable Hydrocarbons as Diesel by mod. EPA 8015B

Matrix: Water

Batch number: 8015DW3559

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
Diesel	3.2	92	70 - 130	Pass

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Diesel	2.96	2.86	3%	25%	Pass

Analytical Notes:

MS: Matrix Spike

LCS: Laboratory Control Sample

MSD: Matrix Spike Duplicate

LCSD: Laboratory Control Sample Duplicate

QC Sample Report - Volatile Hydrocarbons as Gasoline by GCMS

Matrix: Water

Batch Number: M5TPHGW395

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
Gasoline	2.0	99	70 - 130	Pass

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Gasoline	1.98	2.28	14%	25%	Pass

Analytical Notes:

MS: Matrix Spike

MSD: Matrix Spike Duplicate

LCS: Laboratory Control Sample

LCSD: Laboratory Control Sample Duplicate

Volatile Organic Compounds by EPA 8260B

Client: Environmental Strategies
 Project: 911 Bixby Dr., City of Industry, CA
 Job No.: 26842
 Matrix: Soil
 Analyst: RCG

Date Sampled: 09/07/05
 Date Received: 09/07/05
 Date Analyzed: 09/09/05
 Batch Number: SH18260S286

Compounds	Sample ID:	Blank	Soil Cuttings
	RL	mg/Kg	mg/Kg
Acetone	0.050	ND	ND
tert-Amyl Methyl Ether (TAME)	0.005	ND	ND
Benzene	0.001	ND	ND
Bromobenzene	0.005	ND	ND
Bromochloromethane	0.005	ND	ND
Bromodichloromethane	0.001	ND	ND
Bromoform	0.005	ND	ND
Bromomethane	0.005	ND	ND
tert-Butanol (TBA)	0.020	ND	ND
2-Butanone (MEK)	0.010	ND	ND
n-Butylbenzene	0.002	ND	ND
sec-Butylbenzene	0.002	ND	ND
tert-Butylbenzene	0.002	ND	ND
Carbon disulfide	0.010	ND	ND
Carbon tetrachloride	0.001	ND	ND
Chlorobenzene	0.001	ND	ND
Chloroethane	0.005	ND	ND
Chloroform	0.002	ND	ND
Chloromethane	0.001	ND	ND
2-Chlorotoluene	0.002	ND	ND
4-Chlorotoluene	0.002	ND	ND
Dibromochloromethane	0.002	ND	ND
1,2-Dibromoethane	0.002	ND	ND
1,2-Dibromo-3-chloropropane	0.010	ND	ND
Dibromomethane	0.001	ND	ND
1,2-Dichlorobenzene	0.001	ND	ND
1,3-Dichlorobenzene	0.002	ND	ND
1,4-Dichlorobenzene	0.002	ND	ND
Dichlorodifluoromethane	0.005	ND	ND
1,1-Dichloroethane	0.001	ND	ND
1,2-Dichloroethane	0.001	ND	ND
1,1-Dichloroethene	0.005	ND	ND
cis-1,2-Dichloroethene	0.002	ND	ND
trans-1,2-Dichloroethene	0.002	ND	ND
1,2-Dichloropropane	0.001	ND	ND
1,3-Dichloropropane	0.001	ND	ND
2,2-Dichloropropane	0.001	ND	ND
1,1-Dichloropropene	0.001	ND	ND

Volatile Organic Compounds by EPA 8260B

Client: Environmental Strategies	Date Sampled: 09/07/05
Project: 911 Bixby Dr., City of Industry, CA	Date Received: 09/07/05
Job No.: 26842	Date Analyzed: 09/09/05
Matrix: Soil	Batch Number: SH18260S286
Analyst: RCG	

Compounds	Sample ID:	Blank	Soil Cuttings
	RL	mg/Kg	mg/Kg
cis-1,3-Dichloropropene	0.001	ND	ND
trans-1,3-Dichloropropene	0.001	ND	ND
Diisopropyl Ether (DIPE)	0.005	ND	ND
Ethylbenzene	0.001	ND	ND
Ethyl tert-Butyl Ether (EtBE)	0.005	ND	ND
Hexachlorobutadiene	0.001	ND	ND
2-Hexanone	0.010	ND	ND
Isopropylbenzene	0.001	ND	ND
p-Isopropyltoluene	0.002	ND	ND
Methylene chloride	0.050	ND	ND
4-Methyl-2-pentanone	0.010	ND	ND
Methyl tert-Butyl Ether (MtBE)	0.005	ND	ND
Naphthalene	0.002	ND	ND
n-Propylbenzene	0.001	ND	ND
Styrene	0.001	ND	ND
1,1,1,2-Tetrachloroethane	0.001	ND	ND
1,1,2,2-Tetrachloroethane	0.002	ND	ND
Tetrachloroethene	0.001	ND	ND
Toluene	0.001	ND	ND
1,2,3-Trichlorobenzene	0.002	ND	ND
1,2,4-Trichlorobenzene	0.002	ND	ND
1,1,1-Trichloroethane	0.001	ND	ND
1,1,2-Trichloroethane	0.003	ND	ND
Trichloroethene	0.001	ND	ND
1,2,3-Trichloropropane	0.003	ND	ND
Trichlorofluoromethane	0.001	ND	ND
Trichlorotrifluoroethane	0.005	ND	ND
1,2,4-Trimethylbenzene	0.001	ND	ND
1,3,5-Trimethylbenzene	0.001	ND	ND
Vinyl chloride	0.002	ND	ND
Xylenes, m-,p-	0.002	ND	ND
Xylene, o-	0.001	ND	ND

Surrogates in % Recovery (Acceptance Limits: 70 - 130%)

	Sample ID:	Blank	Soil Cuttings
Dibromofluoromethane		95	91
Toluene-d8		103	103
Bromofluorobenzene		105	102

QC Sample Report - Volatile Organic Compounds by EPA 8260B

Matrix: Soil

Batch Number: SH18260S286

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/Kg)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
1,1-Dichloroethene	0.050	95	70 - 130	Pass
Benzene	0.050	95	70 - 130	Pass
Trichloroethene	0.050	108	70 - 130	Pass
Toluene	0.050	100	70 - 130	Pass
Chlorobenzene	0.050	106	70 - 130	Pass

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/Kg)	MSD Sample Result (mg/Kg)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
1,1-Dichloroethene	0.0476	0.0499	5%	25%	Pass
Benzene	0.0478	0.0501	5%	25%	Pass
Trichloroethene	0.0539	0.0560	4%	25%	Pass
Toluene	0.0501	0.0516	3%	25%	Pass
Chlorobenzene	0.0529	0.0547	3%	25%	Pass

Analytical Notes:

MS: Matrix Spike

MSD: Matrix Spike Duplicate

LCS: Laboratory Control Sample

LCSD: Laboratory Control Sample Duplicate

Volatile Organic Compounds by EPA 8260B

Client: Environmental Strategies
 Project: 911 Bixby Dr., City of Industry, CA
 Job No.: 26842
 Matrix: Water
 Analyst: RL

Date Sampled: 09/07/05
 Date Received: 09/07/05
 Date Analyzed: 09/08/05
 Batch Number: M58260W395

Compounds	Sample ID: RL	Blank µg/L	TMW-1 µg/L	TMW-2 µg/L	TMW-3 µg/L
Acetone	50	ND	ND	ND	ND
tert-Amyl Methyl Ether (TAME)	5.0	ND	ND	ND	ND
Benzene	0.5	ND	ND	ND	ND
Bromobenzene	1.0	ND	ND	ND	ND
Bromochloromethane	1.0	ND	ND	ND	ND
Bromodichloromethane	0.5	ND	ND	ND	ND
Bromoform	0.5	ND	ND	ND	ND
Bromomethane	2.0	ND	ND	ND	ND
tert-Butanol (TBA)	10	ND	ND	ND	ND
2-Butanone (MEK)	10	ND	ND	ND	ND
n-Butylbenzene	1.0	ND	ND	ND	ND
sec-Butylbenzene	0.5	ND	ND	ND	ND
tert-Butylbenzene	0.5	ND	ND	ND	ND
Carbon disulfide	10	ND	ND	ND	ND
Carbon tetrachloride	0.5	ND	ND	ND	ND
Chlorobenzene	0.5	ND	ND	ND	ND
Chloroethane	0.5	ND	ND	ND	ND
Chloroform	0.5	ND	ND	ND	ND
Chloromethane	2.0	ND	ND	ND	ND
2-Chlorotoluene	0.5	ND	ND	ND	ND
4-Chlorotoluene	0.5	ND	ND	ND	ND
Dibromochloromethane	0.5	ND	ND	ND	ND
1,2-Dibromoethane	0.5	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	10	ND	ND	ND	ND
Dibromomethane	0.5	ND	ND	ND	ND
1,2-Dichlorobenzene	0.5	ND	ND	ND	ND
1,3-Dichlorobenzene	0.5	ND	ND	ND	ND
1,4-Dichlorobenzene	0.5	ND	ND	ND	ND
Dichlorodifluoromethane	0.5	ND	ND	ND	ND
1,1-Dichloroethane	0.5	ND	ND	ND	ND
1,2-Dichloroethane	0.5	ND	ND	ND	ND
1,1-Dichloroethene	0.5	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.5	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.5	ND	ND	ND	ND
1,2-Dichloropropane	0.5	ND	ND	ND	ND
1,3-Dichloropropane	0.5	ND	ND	ND	ND
2,2-Dichloropropane	0.5	ND	ND	ND	ND
1,1-Dichloropropene	0.5	ND	ND	ND	ND

Volatile Organic Compounds by EPA 8260B

Client:	Environmental Strategies	Date Sampled:	09/07/05
Project:	911 Bixby Dr., City of Industry, CA	Date Received:	09/07/05
Job No.:	26842	Date Analyzed:	09/08/05
Matrix:	Water	Batch Number:	M58260W395
Analyst:	RL		

Compounds	Sample ID: RL	Blank µg/L	TMW-1 µg/L	TMW-2 µg/L	TMW-3 µg/L
cis-1,3-Dichloropropene	0.5	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.5	ND	ND	ND	ND
Diisopropyl Ether (DIPE)	5.0	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND
Ethyl tert-Butyl Ether (EtBE)	5.0	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND
2-Hexanone	10	ND	ND	ND	ND
Isopropylbenzene	0.5	ND	ND	ND	ND
p-Isopropyltoluene	0.5	ND	ND	ND	ND
Methylene chloride	50	ND	ND	ND	ND
4-Methyl-2-pentanone	5.0	ND	ND	ND	ND
Methyl-tert-butyl ether (MtBE)	1.0	ND	ND	ND	ND
Naphthalene	0.5	ND	ND	ND	ND
n-Propylbenzene	0.5	ND	ND	ND	ND
Styrene	0.5	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.5	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND
Tetrachloroethene	0.5	ND	4.5	4.6	22
Toluene	0.5	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.5	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	ND	ND	ND	ND
1,1,1-Trichloroethane	0.5	ND	ND	ND	ND
1,1,2-Trichloroethane	0.5	ND	ND	ND	ND
Trichloroethene	0.5	ND	ND	ND	1.6
1,2,3-Trichloropropane	0.5	ND	ND	ND	ND
Trichlorofluoromethane	0.5	ND	ND	ND	ND
Trichlorotrifluoroethane	5.0	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.5	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.5	ND	ND	ND	ND
Vinyl chloride	0.5	ND	ND	ND	ND
Xylenes, m-,p-	1.0	ND	ND	ND	ND
Xylene, o-	0.5	ND	ND	ND	ND

Surrogates in % Recovery (Acceptance Limits: 70 - 130%)

Sample ID:	Blank	TMW-1	TMW-2	TMW-3
Dibromofluoromethane	101	100	100	99
Toluene-d8	104	104	104	104
Bromofluorobenzene	97	98	97	97

QC Sample Report - Volatile Organic Compounds by EPA 8260B

Matrix: Water

Batch Number: M58260W395

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (µg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
1,1-Dichloroethene	50	108	70 - 130	Pass
Benzene	50	110	70 - 130	Pass
Trichloroethene	50	111	70 - 130	Pass
Toluene	50	111	70 - 130	Pass
Chlorobenzene	50	100	70 - 130	Pass

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (µg/L)	MSD Sample Result (µg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
1,1-Dichloroethene	53.85	52.35	3%	25%	Pass
Benzene	55.12	51.80	6%	25%	Pass
Trichloroethene	55.45	51.02	8%	25%	Pass
Toluene	55.86	53.20	5%	25%	Pass
Chlorobenzene	50.01	46.47	7%	25%	Pass

Analytical Notes:

MS: Matrix Spike

MSD: Matrix Spike Duplicate

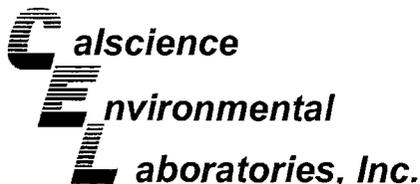
LCS: Laboratory Control Sample

LCSD: Laboratory Control Sample Duplicate

20842

Project Number: 218329-1	Site and Location: 911 Bixby Dr., City of Industry, CA	Matrices:		Date	Time	Matrix	Number of Containers	Requested Analyses										Remarks
		S = Soil	A = Air					W = Wipe	BI = Biotin	OW = Oily Waste	O = Other	VOCs 8260	TPH Analysis 8015	14-dioxane 8270	CAM 22 Metals 8270	Perchlorate 314	NDMA 1625	
Sampler's Name(s): Suman Harichandran															Standard TAT for VOCs, TPH, and CAM 22 Metals (Lab Filter) LFS- NR RUSH TAT for 14-dioxane, NDMA, perchlorate and Cr VI For a final results by 9/12/05			
Sampler's Signature(s): Suman Harichandran																		
Sample Identification:																		
1	TMW-1	9/7/05	1125	Ag	8	X	X	X	X	X	X	X	X	X		X		
2	TMW-2	9/7/05	0940	Ag	8	X	X	X	X	X	X	X	X	X		X		
3	TMW-3	9/7/05	0945	Ag	8	X	X	X	X	X	X	X	X	X	X			
4	Soil Cuttings	9/7/05	1500	S	2	X	X	X	X	X	X	X	X	X	X			
5	Settlement	9/7/05		S	2	X	X	X	X	X	X	X	X	X	X			
Relinquished by (Signature): Suman Harichandran		9/7/05	1121	Received by (Signature): J. J. Jimenez		9/7/05	Laboratory Name: CENTRUM Analytical											
Relinquished by (Signature):		9/7/05	0540	Received by (Signature): J. J. Jimenez		9/7/05	Laboratory Location: RIVERSIDE, CA											
Turn-Around Time: Standard Rush		Tracking Number:		Custody Seal Numbers:		Method of Shipment: Lab Courier												
<input type="checkbox"/> Reston Office: 11911 Freedom Dr., # 900, Reston, VA 20190 Tel: (703) 709-6500, Fax: (703) 709-8505 <input type="checkbox"/> Pittsburgh Office: 300 Corporate Center Dr., # 200, Moon Twp, PA 15108 Tel: (412) 604-1040, Fax: (412) 604-1055		<input type="checkbox"/> Denver Office: 4600 South Ulster, # 930, Denver, CO 80237 Tel: (303) 850-9200, Fax: (303) 850-9214 <input type="checkbox"/> Minneapolis Office: 123 North 3rd St., #706, Minneapolis, MN 55401 Tel: (612) 343-0510, Fax: (612) 343-0506		ENVIRONMENTAL STRATEGIES CONSULTING LLC A QUANTA TECHNICAL SERVICES COMPANY														

San Jose Office: 2025 Gateway Place, Ste. 280, San Jose, CA 95110 (408) 453-6100 / (408) 453-0496



September 12, 2005

Marilu Escher
Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Subject: Calscience Work Order No.: 05-09-0353
Client Reference: 911 Bixby Dr., City of Industry / 26842

Dear Client:

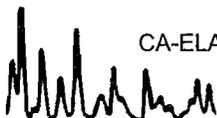
Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/7/2005 and analyzed in accordance with the attached chain-of-custody.

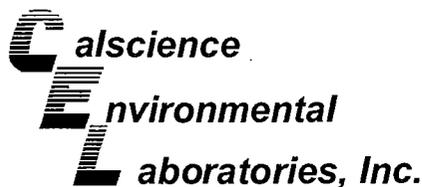
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager





Analytical Report



Centrum Analytical Laboratories, Inc.
 1401 Research Park Drive
 Suite 100
 Riverside, CA 92507-2111

Date Received: 09/07/05
 Work Order No: 05-09-0353
 Preparation: EPA 3520B
 Method: EPA 8270C(M) Isotope Dilution

Project: 911 Bixby Dr., City of Industry / 26842

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TMW-1	05-09-0353-1	09/07/05	Aqueous	09/08/05	09/09/05	050908L05D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Nitrobenzene-d5	87	56-123			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TMW-2	05-09-0353-2	09/07/05	Aqueous	09/08/05	09/09/05	050908L05D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Nitrobenzene-d5	77	56-123			

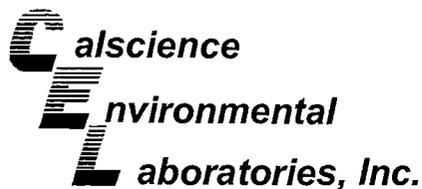
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TMW-3	05-09-0353-3	09/07/05	Aqueous	09/08/05	09/09/05	050908L05D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Nitrobenzene-d5	68	56-123			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-09-004-468	N/A	Aqueous	09/08/05	09/09/05	050908L05D

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	ND	2.0	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Nitrobenzene-d5	74	56-123			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/05
Work Order No: 05-09-0353
Preparation: EPA 3520B
Method: EPA 1625CM

Project: 911 Bixby Dr., City of Industry / 26842

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TMW-1	05-09-0353-1	09/07/05	Aqueous	09/08/05	09/09/05	050908L06

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Dichlorobenzene-d4	89	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TMW-2	05-09-0353-2	09/07/05	Aqueous	09/08/05	09/09/05	050908L06

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Dichlorobenzene-d4	50	50-130			

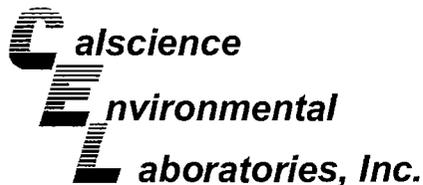
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
TMW-3	05-09-0353-3	09/07/05	Aqueous	09/08/05	09/09/05	050908L06

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Dichlorobenzene-d4	74	50-130			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-07-027-184	N/A	Aqueous	09/08/05	09/09/05	050908L06

Parameter	Result	RL	DF	Qual	Units
N-Nitrosodimethylamine	ND	2.0	1		ng/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Dichlorobenzene-d4	61	50-130			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/05
Work Order No: 05-09-0353

Project: 911 Bixby Dr., City of Industry / 26842

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
TMW-1	05-09-0353-1	09/07/05	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	09/08/05	EPA 314.0
Chromium, Hexavalent	2.9	1.0	1		ug/L	N/A	09/07/05	EPA 7199

TMW-2	05-09-0353-2	09/07/05	Aqueous
-------	--------------	----------	---------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	6.4	2.0	1		ug/L	N/A	09/08/05	EPA 314.0
Chromium, Hexavalent	1.5	1.0	1		ug/L	N/A	09/07/05	EPA 7199

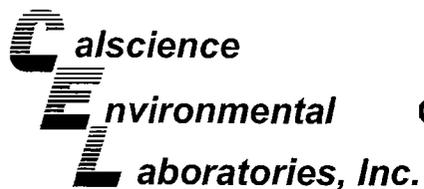
TMW-3	05-09-0353-3	09/07/05	Aqueous
-------	--------------	----------	---------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	3.4	2.0	1		ug/L	N/A	09/08/05	EPA 314.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	09/07/05	EPA 7199

Method Blank				N/A	Aqueous
--------------	--	--	--	-----	---------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	09/08/05	EPA 314.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	09/07/05	EPA 7199

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

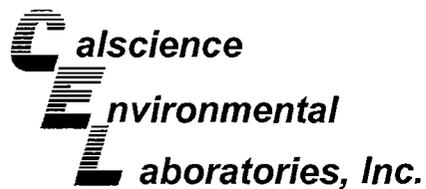
Date Received: N/A
Work Order No: 05-09-0353

Project: 911 Bixby Dr., City of Industry / 26842

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> <u>Sample ID</u>	<u>Date</u> <u>Analyzed</u>	<u>Date</u> <u>Extracted</u>	<u>MS%</u> <u>REC</u>	<u>MSD%</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qualifiers</u>
Chromium, Hexavalent	EPA 7199	TMW-2	09/07/05	N/A	100	100	70-130	0	0-25	
Perchlorate	EPA 314.0	TMW-3	09/08/05	N/A	114	108	80-120	4	0-15	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

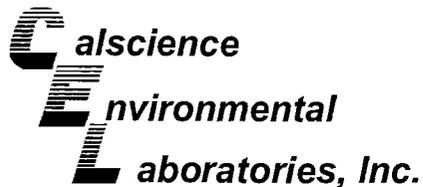
Date Received: N/A
Work Order No: 05-09-0353
Preparation: EPA 3520B
Method: EPA 8270C(M) Isotope Dilution

Project: 911 Bixby Dr., City of Industry / 26842

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-468	Aqueous	GC/MS P	09/08/05	09/09/05	050908L05D

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
1,4-Dioxane	98	105	50-130	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Centrum Analytical Laboratories, Inc.
 1401 Research Park Drive
 Suite 100
 Riverside, CA 92507-2111

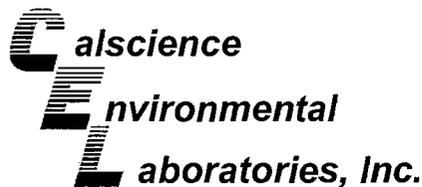
Date Received: N/A
 Work Order No: 05-09-0353
 Preparation: EPA 3520B
 Method: EPA 1625CM

Project: 911 Bixby Dr., City of Industry / 26842

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-027-184	Aqueous	GC/MS Y	09/08/05	09/09/05	050908L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
N-Nitrosodimethylamine	108	92	50-130	16	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Centrum Analytical Laboratories, Inc.
 1401 Research Park Drive
 Suite 100
 Riverside, CA 92507-2111

Date Received:
 Work Order No:

N/A
 05-09-0353

Project: 911 Bixby Dr., City of Industry / 26842

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chromium, Hexavalent	EPA 7199	099-05-123-1,555	N/A	09/07/05	101	101	80-120	1	0-20	
Perchlorate	EPA 314.0	099-05-203-316	N/A	09/08/05	97	97	85-115	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 05-09-0353

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



RUSH

Chain of Custody Record



Centrum Analytical Laboratories, Inc.

1401 Research Park Drive, Suite 100
Riverside, CA 92507
Voice: 951.779.0310 • 800.798.9336
Fax: 951.779.0344

3299 Hill Street, Suite 305
Signal Hill, CA. 90755
Voice: 562.498.7005
Fax: 562.498.8617

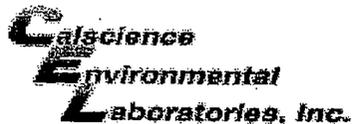
www.centrum-labs.com

lab@centrum-labs.com

Centrum Job # 26842

Page 1 of 1

Project No: 26842		Project Name: 911 Bixby Dr., City of Industry CA	
Project Manager: Marikw Eaber		Address: (Report and Billing)	
Client Name: Centrum		Site location	
Centrum ID (lab use only)	Sample ID (As it should appear on report)	Date sampled	Time sampled
1	TMW-1	9/7/15	1125 W
2	TMW-2	9/7/15	0940 W
3	TMW-3	9/7/15	1415 W
1) Relinquished by: (Sampler's Signature) A Jimenez Date: 9/7 18:00 2) Received by: _____ Date: _____ 3) Relinquished by: _____ Date: _____ 4) Received by: _____ Date: _____ 5) Relinquished by: _____ Date: _____ 6) Received for Laboratory by: Stamox CER Date: 9/7/15 1800			
The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.			
Laboratory Notes:			
Please Circle Analyses Requested Metals: Title 22 (CAM), or RCRA, or PP XXX NOMA Metals: TCLP, STLC XXX 418.1 (TRPH), or 413.2, or 1664 XXX Perchlorate 8081A/8082: Pesticides, or PCBs, or Pest/PCB XXX SVOCs: 8270C, or 625 XXX VOCs: BTEX/Oxygenates Only XXX VOCs: 8260B, or 624 XXX 1,4 dioxane 8021B: BTEX/MIBE Only XXX Fuel ID (VH, TEH), Carbon Chain (specify ranges) XXX LUT Gas, or EPA 8015B GRO XXX LUT Diesel, or EPA 8015B DRO XXX		Turn-Around Time <input checked="" type="checkbox"/> 24 Hr. RUSH* Perchlorate, Cr(VI) <input checked="" type="checkbox"/> 48 Hr. RUSH* 1,4 Dioxane, NOMA <input type="checkbox"/> Normal TAT <input type="checkbox"/> Other _____ *Requires PRIOR approval, additional charges apply Requested due date: _____ Remarks/Special Instructions need final results by Mon, 9/12/15	
To be completed by Laboratory personnel: Samples chilled? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> From Field Custody seals? <input type="checkbox"/> Yes <input type="checkbox"/> No All sample containers intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Courier <input type="checkbox"/> UPS/Fed Ex <input type="checkbox"/> Hand carried		Sample Disposal <input type="checkbox"/> Client will pick up <input type="checkbox"/> Return to client <input type="checkbox"/> Lab disposal	
Additional Report Formats: <input type="checkbox"/> LARWQCB <input type="checkbox"/> EDF (Geotracker) <input type="checkbox"/> EDD (GISKEY) <input type="checkbox"/> EDD (Other)*		Sample Locator No.	



WORK ORDER #: 05 - 09 - 0353

Cooler _____ of _____

SAMPLE RECEIPT FORM

CLIENT: Centrum

DATE: 9/7/05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:	LABORATORY (Other than Calscience Courier):
<input type="checkbox"/> Chilled, cooler with temperature blank provided.	<input type="checkbox"/> °C Temperature blank.
<input type="checkbox"/> Chilled, cooler without temperature blank.	<u>2.7</u> °C IR thermometer.
<input type="checkbox"/> Chilled and placed in cooler with wet ice.	<input type="checkbox"/> Ambient temperature.
<input type="checkbox"/> Ambient and placed in cooler with wet ice.	
<input type="checkbox"/> Ambient temperature.	
<input type="checkbox"/> °C Temperature blank.	

Initial: NC

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A):

Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>		
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>		
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>		
Correct containers for analyses requested.....	<input checked="" type="checkbox"/>		
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>		
VOA vial(s) free of headspace.			<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....			<input checked="" type="checkbox"/>

Initial: NC

COMMENTS:

September 08, 2005

Marilu Escher
Centrum Analytical Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Subject: **Calscience Work Order No.: 05-09-0353**
Client Reference: 911 Bixby Dr., City of Industry / 26842

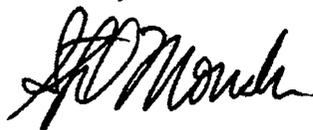
Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/7/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,



Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Centrum Analytical Laboratories, Inc.
 1401 Research Park Drive
 Suite 100
 Riverside, CA 92507-2111

Date Received: 09/07/05
 Work Order No: 05-09-0353

Project: 911 Bixby Dr., City of Industry / 26842

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
TMW-1	05-09-0353-1	09/07/05	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	09/08/05	EPA 314.0
Chromium, Hexavalent	2.9	1.0	1		ug/L	N/A	09/07/05	EPA 7199

TMW-2	05-09-0353-2	09/07/05	Aqueous
--------------	---------------------	-----------------	----------------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	6.4	2.0	1		ug/L	N/A	09/08/05	EPA 314.0
Chromium, Hexavalent	1.5	1.0	1		ug/L	N/A	09/07/05	EPA 7199

TMW-3	05-09-0353-3	09/07/05	Aqueous
--------------	---------------------	-----------------	----------------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	3.4	2.0	1		ug/L	N/A	09/08/05	EPA 314.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	09/07/05	EPA 7199

Method Blank	N/A	Aqueous
---------------------	------------	----------------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	09/08/05	EPA 314.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	09/07/05	EPA 7199

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Centrum Analytical Laboratories, Inc.
 1401 Research Park Drive
 Suite 100
 Riverside, CA 92507-2111

Date Received: N/A
 Work Order No: 05-09-0353

Project: 911 Bixby Dr., City of Industry / 26842

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> <u>Sample ID</u>	<u>Date</u> <u>Analyzed</u>	<u>Date</u> <u>Extracted</u>	<u>MS%</u> <u>REC</u>	<u>MSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qualifiers</u>
Chromium, Hexavalent	EPA 7199	TMW-2	09/07/05	N/A	100	100	70-130	0	0-25	
Perchlorate	EPA 314.0	TMW-3	09/08/05	N/A	114	108	80-120	4	0-15	

RPD - Relative Percent Difference, CL - Control Limit



Centrum Analytical Laboratories, Inc.
 1401 Research Park Drive
 Suite 100
 Riverside, CA 92507-2111

Date Received: N/A
 Work Order No: 05-09-0353

Project: 911 Bixby Dr., City of Industry / 26842

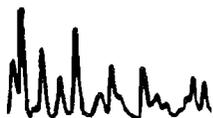
Matrix: Aqueous

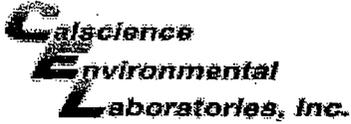
<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chromium, Hexavalent	EPA 7199	099-05-123-1,555	N/A	09/07/05	101	101	80-120	1	0-20	
Perchlorate	EPA 314.0	099-05-203-316	N/A	09/08/05	97	97	85-115	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 05-09-0353

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





WORK ORDER #: 05 - 09 - 0353

Cooler _____ of _____

SAMPLE RECEIPT FORM

CLIENT: Centrum

DATE: 9/7/05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature.
- °C Temperature blank.

LABORATORY (Other than CalScience Courier):

- °C Temperature blank.
- 2.7 °C IR thermometer.
- Ambient temperature.

Initial: NC

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A):

Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial: NC

COMMENTS:
