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## **San Jose Ca AT&T Ground Water Clean Up With OSE II**

- ◎ **The AT&T Building site was owned previously by gas station and a bus company whom all installed fuel storage tanks with an oil pit at one time.**
- ◎ **Virtually no digging is allowed, since AT&T supplies a large number of fiber optic cables that supply Silicon Valley. The Ca Water Board accepted a pilot study with the remedial action plan utilizing OSE II, which was successfully performed in May of 2015.**
- ◎ **A second plan was developed for this AT&T site by the OSEI Corporation to address the rest of the site, where OSE II will be implemented in early 2017.**
- ◎ **The site contains a range of 43.3 PPM to 21,600 ppm of DRO GRO and MTBE. The ground water contamination starts at 19.7 feet below the surface, and extends to 28.5 feet**

# below the surface. OSE II will be injected by Geo Probes again in the unaddressed sections of the ground water.



[http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T060850](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060850) [Skip to: Content | Footer](#)

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## PACIFIC BELL - 95 S ALMADEN (T0608501640) - [MAP](#)

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95 S. ALMADEN AVE.  
SAN JOSE, CA 95113  
SANTA CLARA COUNTY  
LUST CLEANUP SITE

[PRINTABLE CASE SUMMARY](#) / [CSM REPORT](#)

### CLEANUP OVERSIGHT AGENCIES

SANTA CLARA COUNTY LCF ([LEAD](#)) - CASE #: 078/E08V02F  
CASEWORKER: [#AP011 CC.GTA](#)  
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 14-281  
CASEWORKER: [Pajonara Water Board](#)

[Summary](#)
[Case Reviews](#)
[Cleanup Action Report](#)
[Regulatory Activities](#)
[Environmental Data \(ES\)](#)
[Site Maps / Documents](#)
[Community Involvement](#)
[Related Cases](#)

### Regulatory Profile

#### CLEANUP STATUS - [DEFINITIONS](#)

OPEN - REMEDIATION AS OF 6/24/2014 - [CLEANUP STATUS HISTORY](#)

#### POTENTIAL CONTAMINANTS OF CONCERN

DIESEL

#### POTENTIAL MEDIA OF CONCERN

OTHER GROUNDWATER (USES OTHER THAN DRINKING WATER)

#### FILE LOCATION

ALL FILES ARE ON GEOTRACKER OR IN THE LOCAL AGENCY DATABASE

#### BENEFICIAL USE

GW - MUNICIPAL AND DOMESTIC SUPPLY

#### DWR GROUNDWATER SUB-BASIN NAME

Santa Clara Valley - Santa Clara (2-9.02)

#### RB WATERSHED NAME

Santa Clara - Guadalupe River (205.40)

#### GROUNDWATER MONITORING FREQUENCY

# OF WELLS MONITORED - SEMI-ANNUALLY : 8

### Site History

The site is currently an AT&T property occupying an entire city block. The surrounding area is primarily commercial properties. Currently a nine story office building which originally dates back to approximately 1950 when AT&T purchased land from the Greyhound bus lines company. In 1992, five 10,000 gallon underground storage tanks (USTs) containing diesel fuel and all associated piping were removed from the southwest corner of the site. Soil samples collected during the UST removal contained elevated concentrations of petroleum hydrocarbons. Three new 20,000 gallon USTs were subsequently installed approximately 90 feet to the north of the original UST pit. In 1995 six monitoring wells were installed on-site to monitor groundwater contamination. In 1996 free product was observed in monitoring wells MW-1 and MW-6 and both passive and active free product removal activities were initiated. Groundwater monitoring and free product recovery continued through 2001 when a corrective action plan (CAP) was approved. The CAP approved injection of oxygen-releasing compound (ORC) into the subsurface to promote biodegradation. In 2002 passive free product recovery skimmers were installed in wells MW-1 and MW-5 and currently remain in these wells. In 2008 another CAP was submitted recommending the removal of remaining contamination through excavation. In 2012 the pre-excavation design investigation was performed during which two direct push soil borings and nineteen CPT L/VOST borings were drilled to determine the extent of soil contamination in order to help finalize and excavation design. Groundwater monitoring is currently being performed on a semi-annual basis in the first and third quarters.

# Quarterly Report from CB&I for the San Jose AT&T Site where OSE II has been injected



CB&I  
180 Promenade Circle, Suite 320  
Sacramento, California 95834  
Phone: 916.928.3300  
Fax: 916.565.4356

May 29, 2015

CB&I Project No. 151823.06

Mr. Aaron Costa  
Santa Clara County Department of Environmental Health  
Hazardous Materials Compliance Division  
1555 Berger Drive, Suite 300  
San Jose, California 95112-2716

**Subject:** March 2015 Quarterly Groundwater Monitoring and Remedial Progress Report  
Pacific Bell Telephone Company Facility  
95 South Almaden Avenue  
San Jose, California

Dear Mr. Costa:

Please find the enclosed the March 2015 quarterly groundwater monitoring and remedial progress report for the above-mentioned Pacific Bell Telephone Company facility. This report was prepared to summarize the results of the semi-annual sampling component, including field monitoring and analytical data for the typical groundwater sampling suite (TPH-D, BTEX and five fuel oxygenates). In addition, this report summarizes the results of the remedial progress through the 1<sup>st</sup> Quarter 2015. A copy of this report will also be uploaded to the Santa Clara County database.

During groundwater sampling activities, free product was encountered in wells MW-1, MW-6 and MW-7 at 0.6 inches, 0.84 inches and 4.44 inches respectively. A groundwater sample was inadvertently not collected from well MW-5, with samples collected for laboratory analysis from the remaining 12 on- and off-site monitoring wells. A summary of sample results by analyte follow:

- TPH-D was detected in samples collected from wells MW-2, MW-3, MW-4, MW-10, MW-11, MW-12, MW-13, MW-15, and MW-16 at concentrations ranging from 47 micrograms per liter ( $\mu\text{g/L}$ ) in MW-3 to 17,200  $\mu\text{g/L}$  in MW-12.
- TPH-G was reported in the analysis of the samples from MW-8, MW-10, MW-11, MW-12, MW-13 and MW-14, MW-15, and MW-16 with concentrations ranging from 130  $\mu\text{g/L}$  in MW-8 to 10,600  $\mu\text{g/L}$  in MW-12.
- Benzene was detected in MW-8 (0.11  $\mu\text{g/L}$ ), MW-9 (2.3  $\mu\text{g/L}$ ), MW-11 (1.1  $\mu\text{g/L}$ ), MW-12 (334  $\mu\text{g/L}$ ), MW-13 (0.56  $\mu\text{g/L}$ ), and MW-16 (1.8  $\mu\text{g/L}$ ).
- Toluene was detected in MW-9 (1.1  $\mu\text{g/L}$ ) and MW-12 (20.6  $\mu\text{g/L}$ ).
- Ethylbenzene was detected in MW-9 (0.43  $\mu\text{g/L}$ ) and MW-12 (29.3  $\mu\text{g/L}$ ).
- Total xylenes were detected in MW-9 (0.49  $\mu\text{g/L}$ ) and MW-12 (79.8  $\mu\text{g/L}$ ).
- tert-Butyl Alcohol was detected in MW-3 (5.1  $\mu\text{g/L}$ ), MW-15 (6.4  $\mu\text{g/L}$ ) and MW-16 (10.2  $\mu\text{g/L}$ ).

Mr. Aaron Costa  
May 29, 2015  
Page 2

As part of the remedial activities at the site, three new monitoring wells (MW-14, MW-15 and MW-16) and eleven new injection wells (IW-1 through IW-11) had been installed at the site. In March 2015, the iSOC equipment was installed in the injection wells, with pilot testing of the equipment initiated. Additional details on the results of the pilot testing, ongoing oxygenation results and subsequent injection of the bioremediation catalyst will be provided in the upcoming system installation report.

If you have any questions regarding the information presented in this report, please contact either Greg Rainwater with AT&T at (469) 365-1100 or Rob Delnagro with CB&I at (916) 565-4343.

Please direct any written correspondence to:

Mr. Greg Rainwater  
Apex Titan for AT&T Services, Inc.  
308 South Akard Street; Room 1700  
Dallas, Texas 75202

Thank you for your support on this project.

Sincerely,  
**CB&I Environmental & Infrastructure, Inc.**

Rob Delnagro  
Client Program Manager

cc: Mr. Mark Smith – AT&T Services, Inc.

#### Perjury Statement

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Mr. Greg Rainwater  
Apex Titan for AT&T Services, Inc.

May 29, 2015

Date

# Quarterly Report from CB&I for the San Jose AT&T Site

## Where the remedial plan included injecting OSE II

### 5.0 Remedial Progress

In January 2015, CB&I began implementation of activities proposed in the *Pilot Test Work Plan* by installing 11 injection wells and three new groundwater monitoring wells. On March 20, 2015, CB&I finished installation of the iSOC equipment in the 11 injection wells and began pilot testing activities. CB&I began monthly sampling of the wells in April 2015, and in the first part of May 2015, CB&I completed the injection of the bioremediation catalyst (OSE II) into the subsurface. The report summarizing system installation and remedial progress activities including specific field activities and data is still being prepared and is scheduled for submittal in July 2015 along with the second quarterly groundwater monitoring results.

### 6.0 Conclusions

Based on the field observations and laboratory analytical data from the March 2015 groundwater sampling event, AT&T Services, Inc. and CB&I conclude the following:

- Groundwater elevations ranged from 76.16 feet amsl to 72.10 feet amsl, with overall direction of the groundwater gradient to the northeast at approximately 0.010 ft/ft.
- Oxygenation of the aquifer has caused some mounding in the area of the injection wells.
- Free product was encountered in wells MW-1, MW-6 and MW-7 at 0.6 inches, 0.84 inches and 4.44 inches respectively.
- DO concentrations ranged from 0.26 mg/L in well MW-8 to 0.64 mg/L in well MW-3.
- TPH-D was detected in samples collected from wells MW-2, MW-3, MW-4, MW-10, MW-11, MW-12, MW-13, MW-15 and MW-16 at concentrations ranging from 47 µg/L in MW-3 to 17,200 µg/L in MW-12.
- TPH-G was reported in the analysis of the samples from MW-8, MW-10, MW-11, MW-12, MW-13 and MW-14, MW-15, and MW-16 with concentrations ranging from 130 µg/L in MW-8 to 10,600 µg/L in MW-12.
- Benzene was detected in MW-8 (0.11 µg/L), MW-9 (2.3 µg/L), MW-11 (1.1 µg/L), MW-12 (334 µg/L), MW-13 (0.56 µg/L), and MW-16 (1.8 µg/L).
- Toluene was detected in MW-9 (1.1 µg/L) and MW-12 (20.6 µg/L).
- Ethylbenzene was detected in MW-9 (0.43 µg/L) and MW-12 (29.3 µg/L).

- Total xylenes were detected in MW-9 (0.49 µg/L) and MW-12 (79.8 µg/L).
- Tert-Butyl Alcohol was detected in MW-3 (5.1 µg/L), MW-15 (6.4 µg/L) and MW-16 (10.2 µg/L).
- The samples were additionally analyzed for select biodegradation parameters; these results will be summarized in the upcoming system installation report

In accord with the SCCDEH letter dated October 16, 2014, starting in 2015 groundwater sampling is to be conducted monthly the first three months of the planned pilot test, and quarterly thereafter. CB&I is scheduling the next groundwater monitoring events in April, May and June 2015, with the report for the sampling activities and a summary of the system installation activities to be submitted by July 30, 2015.

### 6.1 Reporting Requirements

A copy of this report will be forwarded to the following regulatory agency, with an electronic copy uploaded to the SCCDEH and Geotracker databases:

- Mr. Aaron Costa  
Santa Clara County Department of Environmental Health  
1555 Berger Drive, Suite 300  
San Jose, California 95112-2716

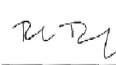
### 7.0 Signatures


The interpretations and conclusions contained in this report represent our professional opinions. These opinions are based on currently accepted engineering practices at this time and for this specific site. No additional warranty is implied or intended.

Report prepared by:

  
Joseph Pickard  
Project Scientist  
CB&I Environmental & Infrastructure, Inc.

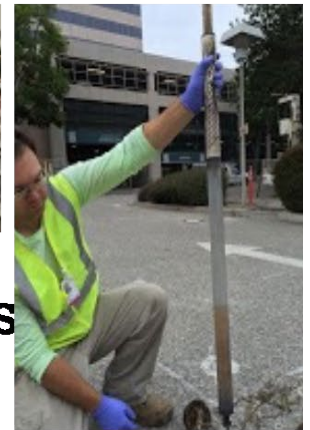
Report reviewed by:

  
Rob Delnagro, P.G.  
Project Manager/Quality Assurance  
CB&I Environmental & Infrastructure, Inc.



The work described in this report was performed under the direct supervision of a State of California Professional Geologist.

# San Jose Ca AT&T Ground Water Clean Up With OSE II



This site contained 4,000,000 gallons contaminated ground water



The OSEI Corporation develops protocols for ground water clean ups, once we have received all the site parameters/characterization. The protocols covers site parameters, calculations, general materials needed, procedure, testing, site maintenance, expected time frame/conclusions. The site was remediated and given a closure letter

Steven Pedigo  
CEO OSEI Corporation

