

19 November 2012

Don Houston
San Diego Gas & Electric Company
1010 Tavern Road, Building 1
Alpine, California 91901

**Subject: Limited Soil Assessment Results
Evaluation of Potential Lead Impacts as a Result of Former Target Practice
Mitigation Measure HAZ-3
Proposed ECO Substation Disturbance Area
Southeast San Diego County, California**

Dear Mr. Houston:

Geosyntec Consultants (Geosyntec) is pleased to submit this report documenting the results of a limited soil assessment of potential lead impacts as a result of former informal, intermittent target practice in the vicinity of San Diego Gas & Electric Company's (SDG&E's) East County (ECO) Substation Project. The scope of work performed and described herein was performed in accordance with the Workplan for Soil Assessment (Workplan) prepared by Geosyntec, dated 4 October 2012, and approved by the California Public Utilities Commission (CPUC) on 31 October 2012. The Workplan and this report were prepared to address Mitigation Measure HAZ-3, Soil Testing for Lead Contamination, as presented in the October 2011 Final Environmental Impact Report/Environmental Impact Statement (FEIR/EIS) for the ECO Substation Project.

SCOPE OF WORK

The objective of the scope of work performed was to evaluate the presence of elevated lead concentrations associated with a former shooting area identified during the previous Phase I Environmental Site Assessment for the site, and determine if a Soil/Lead Contamination Handling Plan to outline special soil handling and excavating procedures is warranted for the ECO Substation site. Surficial soil samples were collected from five locations, as plotted on the Site Map and Approximate Boring Locations (Figure 1). Soil sampling was performed by a California-licensed Professional Geologist, and soil samples were analyzed by a California-certified analytical laboratory in accordance with the Workplan.

RESULTS

Analytical results for the five soil samples collected and analyzed are included as Attachment 1, and summarized below.

Summary of Analytical Results					
Sample ID	B1	B2	B3	B4	B5
Total Lead (mg/kg) (EPA Method 6010B)	33	76	35	ND<9.0	ND<9.0

Analytical results for total lead in soil samples ranged from non-detectable to 76 mg/kg, with a statistical average of 30.6 mg/kg. Typical background concentrations of total lead in soil in San Diego County range from 15.6 mg/kg to 57.1 mg/kg [Kearney Foundation, 1996]. The Environmental Protection Agency (EPA), Region IX, Regional Screening Levels (RSLs) for residential and commercial land uses are 600 mg/kg and

800 mg/kg, respectively. Additionally, the California Environmental Protection Agency's (CalEPA/DTSC) California Human Health Screening Levels (CHHSLs) for residential and industrial land uses are 150 mg/kg and 3,500 mg/kg, respectively.

The total lead concentrations in the five samples collected were generally consistent with San Diego County background concentrations, and the reported analytical results are significantly lower than risk-based regulatory screening levels described above. Furthermore, these samples were collected in the vicinity of shooting debris located outside the planned disturbance area but within the 500 foot buffer area, results are expected to be conservatively representative of elevated total lead concentrations in the sampling area, and are anticipated to be an overestimation of site-wide concentrations. Therefore, elevated risk to human health or the environment as a result of residual lead concentrations related to current or former shooting areas at the site was not identified.

CONCLUSION

The scope of work and results described herein are intended to address the requirements of MM HAZ-3. Concentrations of total lead in soil as a result of current or former intermittent target practice areas at the site was not identified in excess of established risk-based regulatory screening levels. Therefore, based on the analytical results, preparation of a Soil/Lead Contamination Handling Plan is not warranted. However, if soil is planned for off-site re-use or disposal, the material should be characterized and profiled in accordance with the existing ECO Project Hazardous Materials and Waste Management Plan [Insignia, 2012].

Sincerely,
Geosyntec Consultants,

Douglas Baumwirt, PG
Geosyntec Project Manager

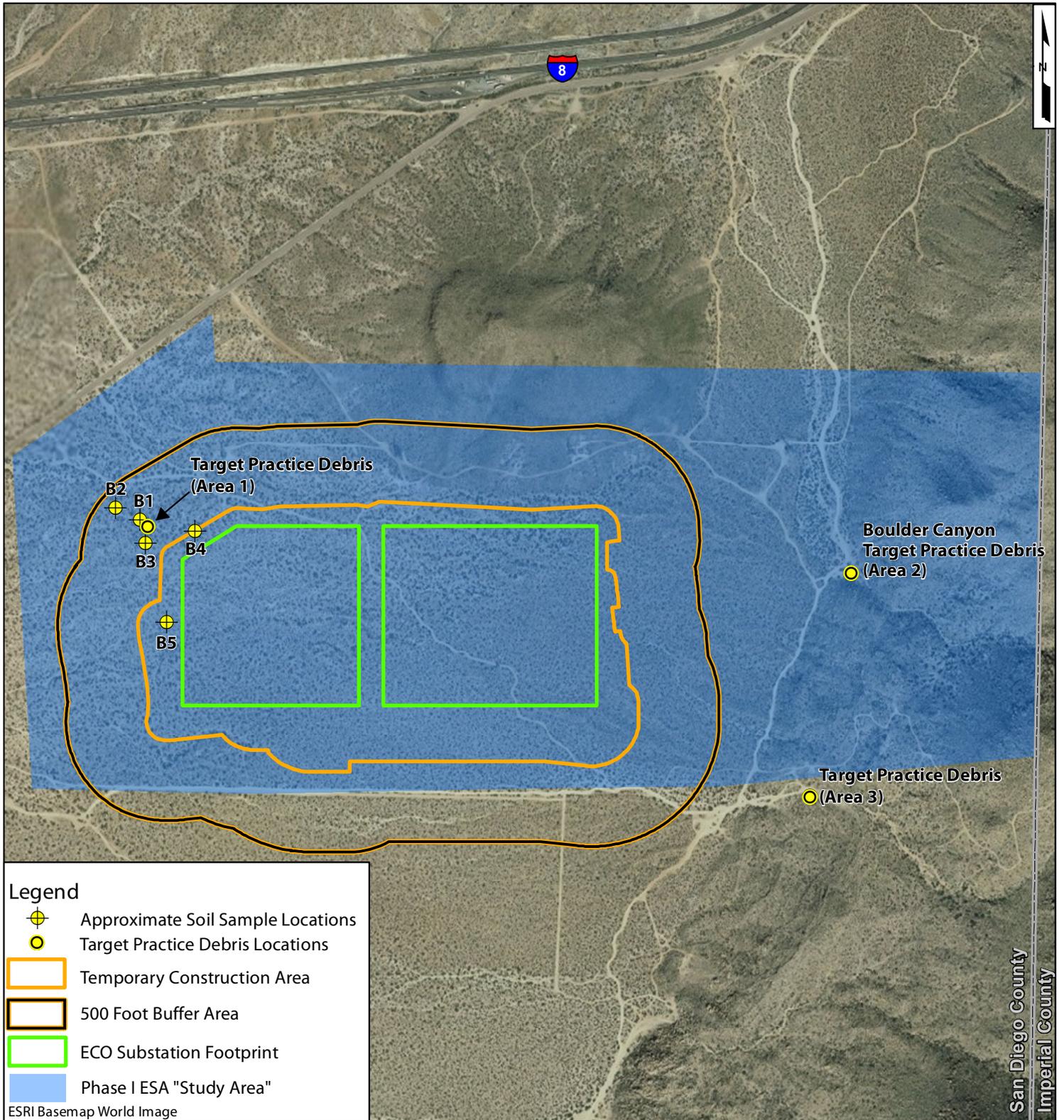
Attachment:

Figure 1 – Site Map and Proposed Sample Locations
Attachment 1 – Laboratory Analytical Report

References:

Insignia, 2012. Hazardous Materials and Waste Management Plan, East County Substation Project, prepared for San Diego Gas & Electric Company, 1 November 2012.

Kearney Foundation, 1996. Kearney Foundation Special Report, Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California. March 1996.



Legend

- Approximate Soil Sample Locations
- Target Practice Debris Locations
- Temporary Construction Area
- 500 Foot Buffer Area
- ECO Substation Footprint
- Phase I ESA "Study Area"

ESRI Basemap World Image

San Diego County
Imperial County



**Site Map and
Approximate Sample Locations**
Soil Assessment
ECO Substation Project

Geosyntec
consultants

Figure

1

San Diego

November 2012



A  Sempra Energy utility®

12 November 2012

Kristie Reynolds - SD1116
SDG&E - Environmental Project Management
8315 Century Park Ct
San Diego, CA 92123-1548
RE: ECO Substation

Enclosed are the results of analyses for samples received by the laboratory on 11/06/12 14:54. If you have any questions concerning this report, please feel free to contact me.

Sincerely,


Authorized Signature 11/12/12

Christopher Q. Dong
Senior Chemist

Name / Title

San Diego Gas & Electric
ELAP Certificate No. 1289

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SDG&E - Environmental Project Management
8315 Century Park Ct
San Diego CA, 92123-1548

Project: ECO Substation
Project Number: ECO Substation
Project Manager: Kristie Reynolds - SD1116

Reported:
11/12/12 10:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1	1211043-01	Solid	11/06/12 11:40	11/06/12 14:54
B2	1211043-02	Solid	11/06/12 11:45	11/06/12 14:54
B3	1211043-03	Solid	11/06/12 11:47	11/06/12 14:54
B4	1211043-04	Solid	11/06/12 11:50	11/06/12 14:54
B5	1211043-05	Solid	11/06/12 12:00	11/06/12 14:54

Email: DBaumwirt@Geosyntec.com
KReynolds@semprautilities.com

REPORT COMMENTS

1. This replaces the report issued on 09 November 2012. An STLC extraction for lead was performed at the customer's request and the results are reported on page 4 of this report.

SDG&E - Environmental Project Management
8315 Century Park Ct
San Diego CA, 92123-1548

Project: ECO Substation
Project Number: ECO Substation
Project Manager: Kristie Reynolds - SD1116

Reported:
11/12/12 10:55

California ELAP Certified Methods
San Diego Gas & Electric

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1 (1211043-01) Solid Sampled: 11/06/12 11:40 Received: 11/06/12 14:54									
Lead	33	9.0	mg/kg	1	2K09001	11/09/12	11/09/12	EPA 6010B	
B2 (1211043-02) Solid Sampled: 11/06/12 11:45 Received: 11/06/12 14:54									
Lead	76	9.0	mg/kg	1	2K09001	11/09/12	11/09/12	EPA 6010B	
B3 (1211043-03) Solid Sampled: 11/06/12 11:47 Received: 11/06/12 14:54									
Lead	35	9.0	mg/kg	1	2K09001	11/09/12	11/09/12	EPA 6010B	
B4 (1211043-04) Solid Sampled: 11/06/12 11:50 Received: 11/06/12 14:54									
Lead	ND	9.0	mg/kg	1	2K09001	11/09/12	11/09/12	EPA 6010B	
B5 (1211043-05) Solid Sampled: 11/06/12 12:00 Received: 11/06/12 14:54									
Lead	ND	9.0	mg/kg	1	2K09001	11/09/12	11/09/12	EPA 6010B	

SDG&E - Environmental Project Management
8315 Century Park Ct
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Project: ECO Substation
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Project Manager: Kristie Reynolds - SD1116

Reported:
11/12/12 10:55

California ELAP Certified Methods - STLC Metals
San Diego Gas & Electric

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B2 (1211043-02) Solid Sampled: 11/06/12 11:45 Received: 11/06/12 14:54									
Lead	5.7	0.45	mg/l	1	2K10001	11/10/12	11/12/12	EPA 6010B-STLC	

SDG&E - Environmental Project Management
 8315 Century Park Ct
 San Diego CA, 92123-1548

Project: ECO Substation
 Project Number: ECO Substation
 Project Manager: Kristie Reynolds - SD1116

Reported:
 11/12/12 10:55

**California ELAP Certified Methods - Quality Control
 San Diego Gas & Electric**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2K09001 - EPA 3050B

Blank (2K09001-BLK1)

Prepared & Analyzed: 11/09/12

Lead ND 9.0 mg/kg

Matrix Spike (2K09001-MS1)

Source: 1211043-05

Prepared & Analyzed: 11/09/12

Lead 106 9.0 mg/kg 98.5 ND 108 75-125

Matrix Spike Dup (2K09001-MSD1)

Source: 1211043-05

Prepared & Analyzed: 11/09/12

Lead 107 9.0 mg/kg 100 ND 107 75-125 0.140 20

Reference (2K09001-SRM1)

Prepared & Analyzed: 11/09/12

Lead 96.4 9.0 mg/kg 91.7 105 70.2-129.8

**California ELAP Certified Methods - STLC Metals - Quality Control
 San Diego Gas & Electric**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2K10001 - Title 22-STLC

Blank (2K10001-BLK1)

Prepared: 11/10/12 Analyzed: 11/12/12

Lead ND 0.45 mg/l

LCS (2K10001-BS1)

Prepared: 11/10/12 Analyzed: 11/12/12

Lead 1.01 0.090 mg/l 1.00 101 80-120

Matrix Spike (2K10001-MS1)

Source: 1211043-02

Prepared: 11/10/12 Analyzed: 11/12/12

Lead 9.49 0.45 mg/l 5.00 5.66 76.7 75-125

Matrix Spike Dup (2K10001-MSD1)

Source: 1211043-02

Prepared: 11/10/12 Analyzed: 11/12/12

Lead 9.66 0.45 mg/l 5.00 5.66 80.2 75-125 1.83 20

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 ELAP Certificate No. 1289

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Project Number: ECO Substation
Project Manager: Kristie Reynolds - SD1116

Reported:
11/12/12 10:55

California ELAP Certified Methods - STLC Metals - Quality Control
San Diego Gas & Electric

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2K10001 - Title 22-STLC

SDG&E - Environmental Project Management
8315 Century Park Ct
San Diego CA, 92123-1548

Project: ECO Substation
Project Number: ECO Substation
Project Manager: Kristie Reynolds - SD1116

Reported:
11/12/12 10:55

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

