

**RECEIVED**

By Alameda County Environmental Health 9:20 am, Aug 15, 2017

**Well Abandonment Report  
Former Charles Lowe Facility  
1400 Park Avenue, Emeryville, California  
Fuel Leak Case No. RO0000398  
GeoTracker Global ID T0600102202**

*Prepared for:*

**Emeryville Properties**  
1400 Park Avenue  
EMERYVILLE, CALIFORNIA 94608-0445

*Prepared by:*

**DUDEK**  
Corporate Office:  
605 Third Street  
Encinitas, California 92024



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Susan Smith, P.G.  
Geologist

**AUGUST 2017**

**Well Abandonment Report  
Former Charles Lowe Facility**

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**FIGURES**

Figure 1      Site Map

**ATTACHMENTS**

Attachment A	Alameda County Well Permit
Attachment B	Soil Sample Laboratory Data
Attachment C	Waste Manifest and Weight Ticket

**Well Abandonment Report  
Former Charles Lowe Facility**

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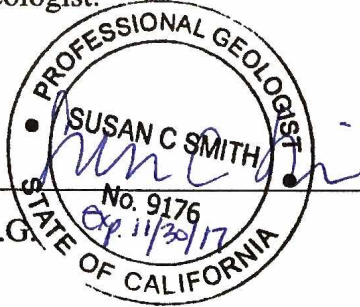
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# Well Abandonment Report Former Charles Lowe Facility

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## CERTIFICATION

I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge. Information, conclusions, and recommendations in this document have been prepared by a California Professional Geologist.



---

Susan Smith, P.G.  
Geologist

August 11, 2017

Date

August 9, 2017

Mr. Mark E. Detterman, Senior Hazardous Materials  
Specialist Alameda County Department of Environmental  
Health Department Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA.94502

Re: Perjury Statement Request.

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

William W. Lewerenz, Partner

  
Emeryville Properties, LLC

# Well Abandonment Report Former Charles Lowe Facility

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## 1 INTRODUCTION

Dudek has prepared this report to document the well destruction activities performed on July 17, 2017 at the former Charles Lowe facility (Site) located at 1400 Park Avenue, Emeryville, California. A total of two existing monitoring wells were destroyed under Alameda County Public Works Agency, Water Resources Section (Alameda County) Permit Numbers W2017-0519 and W2017-0520, issued June 23, 2017. The well destruction activities are summarized below.

## 2 PRE-FIELD ACTIVITY

Prior to commencement of well destruction activities, a Dudek hydrogeologist reviewed the available well construction logs for the two wells to be destroyed. Monitoring wells MW-1 and MW-2 were installed by previous contractors and consultants in 1994. The wells were located within the parking area of the facility (Figure 1). Based on a review of the well logs, MW-1 and MW-2 drilled using an 8-inch auger and were constructed using 2-inch diameter polyvinyl chloride (PVC) casing. Each well was completed to a total depth of 24 feet below ground surface (bgs).

Dudek obtained a well deconstruction permit for the two monitoring wells from Alameda County prior to commencement of well destruction activities (Attachment A). In accordance with the permit, Dudek notified Marcelino Vialpando of Alameda County 5 days, and again 24 hours, prior to the start of drilling activities. Destruction of wells MW-1 and MW-2 was performed in accordance with the specifications detailed in the Alameda County well permit.

## 3 WELL DESTRUCTION

Dudek contracted Gregg Drilling & Testing (Gregg), license #485165, to perform the well destruction using a D10/S53 truck-mounted hollow-stem auger drill rig. On July 14, 2017, Gregg's licensed driller Robert Greguras commenced deconstruction of the wells with oversight provided by Dudek's Hydrogeologist, Dylan Duvergé.

Gregg completed deconstruction of well MW-1 first, then proceeded to well MW-2. Well deconstruction activities for both wells included the following: Gregg removed the well box and concrete at the surface, then drilled out the PVC casing and well materials (filter pack, annular seal) with an 8-inch hollow-stem auger. Once the entire casing and screen was removed, the neat cement was pumped into the borehole through the auger stem. The borehole was grouted with neat cement from the bottom up to within 3 to 5 feet of the surface, then topped off the borehole with concrete.

# **Well Abandonment Report Former Charles Lowe Facility**

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## **3.2 Surface Restoration**

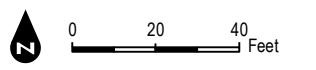
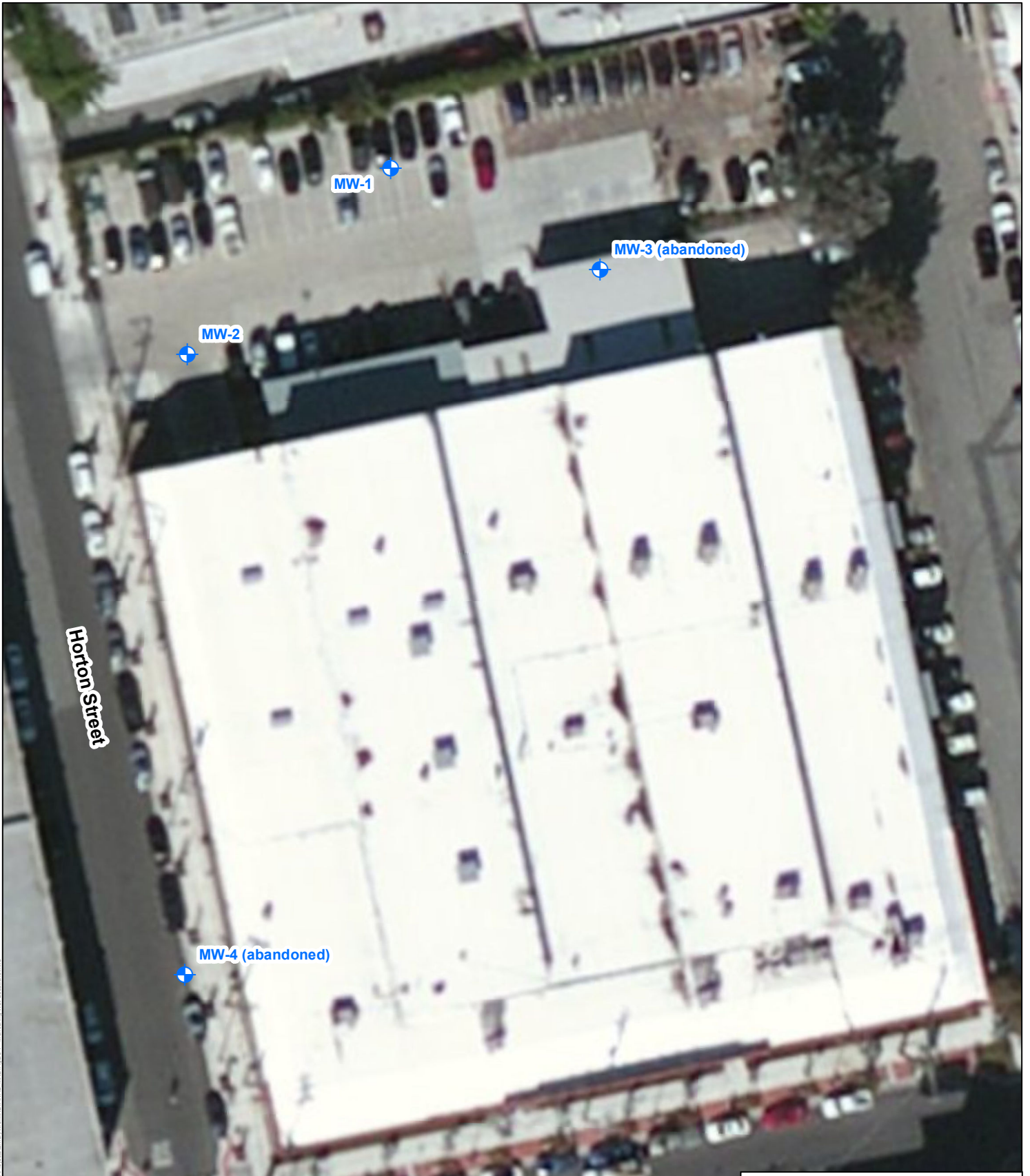
Upon completion of well destruction activities, the surfaces at former MW-1 and MW-2 were patched with concrete and troweled to a smooth finish to match existing conditions.


## **4 WASTE DISPOSAL**

The well box and PVC casing, including screened portion, were removed and disposed of off-site by Gregg. Soil cuttings generated during the drilling activities were stored in two sealed, labeled, 55-gallon drums. A composite soil sample was collected for waste characterization which combined soil from the two drums plus a third drum already on site, which contained investigation-derived waste (IDW) soil from recent site work. Based on the soil sample results, the soil was characterized as non-Resource Conservation and Recovery Act (RCRA)/non-hazardous waste (Attachment B). The two drums containing well abandonment soil cuttings were removed from site along with the drum of previous IDW by Ponder Environmental on July 31, 2017. The waste was transported to the Portrero Hills Landfill for disposal. The transporter copy of the manifest and weight ticket are included in Attachment C.

# **FIGURES**





 Monitoring Well Location

**DUDEK**

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1400 Park Avenue, Emeryville, California

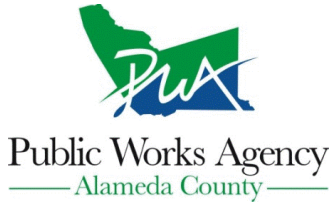
**FIGURE 1**  
Monitoring Well Locations

August 2017

Date: 8/20/17 - List saved by klabrino - Path: Z:\Info\Projects\Emeryville\MOI\Figures - Monitoring Well Locations.mxd

**ATTACHMENT A**  
*Alameda County Well Permit*

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 06/23/2017 By jamesy**

**Permit Numbers: W2017-0519 to W2017-0520**  
**Permits Valid from 06/29/2017 to 06/29/2017**

**Application Id:** 1498255225905  
**Site Location:** 1400 Park Avenue, Emeryville, CA  
**Project Start Date:** 06/29/2017  
**Assigned Inspector:** Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org  
**Applicant:** Dudek - Susie Smith  
 3544 University Ave, Riverside, CA 92501  
**Property Owner:** Emeryville Properties LLC Bill Lewerenz  
 3963 Woodside Ct, Lafayette, CA 94549  
**Client:** \*\* same as Property Owner \*\*

**City of Project Site:**Emeryville  
**Completion Date:**06/29/2017  
**Phone:** 951-300-1085  
**Phone:** 415-793-3311

	<b>Total Due:</b>	\$794.00
<b>Receipt Number: WR2017-0290</b>	<b>Total Amount Paid:</b>	\$794.00
<b>Payer Name : Dudek</b>	<b>Paid By: CHECK</b>	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Well Destruction-Monitoring - 2 Wells  
 Driller: Gregg - Lic #: 485165 - Method: hstem

**Work Total: \$794.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2017-0519	06/23/2017	09/27/2017	MW1	8.00 in.	2.00 in.	5.00 ft	24.00 ft			
W2017-0520	06/23/2017	09/27/2017	MW2	8.00 in.	2.00 in.	5.00 ft	24.00 ft			

**Specific Work Permit Conditions**

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 30 days. Include permit number and site map.
4. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.
5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend

## Alameda County Public Works Agency - Water Resources Well Permit

and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

8. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

10. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

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**ATTACHMENT B**  
*Soil Sample Laboratory Data*

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-188435-1

Client Project/Site: Dudek Emeryville-Former Charles Lowe Fac


For:

Dudek & Associates

750 Second Street

Encinitas, California 92024

Attn: Susan Smith



Authorized for release by:

7/25/2017 9:45:17 AM

Danielle Roberts, Senior Project Manager

(949)261-1022

[danielle.roberts@testamericainc.com](mailto:danielle.roberts@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: Dudek & Associates  
Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-188435-1	Comp-1	Solid	07/14/17 13:15	07/15/17 10:55

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# Case Narrative

Client: Dudek & Associates  
Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

**Job ID: 440-188435-1**

**Laboratory: TestAmerica Irvine**

## Narrative

**Job Narrative  
440-188435-1**

### Comments

No additional comments.

### Receipt

The sample was received on 7/15/2017 10:55 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-417591 and analytical batch 440-419046 were outside control limits for multiple analytes. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

Method(s) 3546: The following sample was diluted due to the nature of the sample matrix: Comp-1 (440-188435-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: Dudek & Associates  
 Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

**Client Sample ID: Comp-1**

**Lab Sample ID: 440-188435-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
GRO (C4-C12)	270	J	390	150	ug/Kg	1		8015B	Total/NA
DRO (C13-C22)	92		9.9	4.9	mg/Kg	1		8015B	Total/NA
ORO (C23-C40)	280		9.9	4.9	mg/Kg	1		8015B	Total/NA
Lead	18		0.49	0.25	mg/Kg		20	6020	Total/NA
Beryllium	0.23	J	0.30	0.15	mg/Kg		20	6020	Total/NA
Barium	120		0.49	0.25	mg/Kg		20	6020	Total/NA
Arsenic	5.0		0.49	0.25	mg/Kg		20	6020	Total/NA
Cadmium	0.31	J	0.49	0.25	mg/Kg		20	6020	Total/NA
Copper	18	B	0.99	0.49	mg/Kg		20	6020	Total/NA
Chromium	27		0.99	0.49	mg/Kg		20	6020	Total/NA
Cobalt	4.5		0.49	0.21	mg/Kg		20	6020	Total/NA
Molybdenum	0.68	J	0.99	0.49	mg/Kg		20	6020	Total/NA
Nickel	30		0.99	0.49	mg/Kg		20	6020	Total/NA
Antimony	0.37	J	0.99	0.27	mg/Kg		20	6020	Total/NA
Vanadium	29		0.99	0.49	mg/Kg		20	6020	Total/NA
Zinc	47		9.9	4.9	mg/Kg		20	6020	Total/NA
Mercury	0.078		0.020	0.012	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

# Client Sample Results

Client: Dudek & Associates  
 Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

**Client Sample ID: Comp-1**

**Lab Sample ID: 440-188435-1**

**Date Collected: 07/14/17 13:15**

**Matrix: Solid**

**Date Received: 07/15/17 10:55**

**Method: 8015B - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	270	J	390	150	ug/Kg	-		07/19/17 00:16	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	100		65 - 140					07/19/17 00:16	1

**Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	92		9.9	4.9	mg/Kg	-	07/16/17 18:21	07/18/17 22:15	1
ORO (C23-C40)	280		9.9	4.9	mg/Kg	-	07/16/17 18:21	07/18/17 22:15	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
n-Octacosane	81		40 - 140				07/16/17 18:21	07/18/17 22:15	1

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		0.49	0.25	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Beryllium	0.23	J	0.30	0.15	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Barium	120		0.49	0.25	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Arsenic	5.0		0.49	0.25	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Cadmium	0.31	J	0.49	0.25	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Copper	18	B	0.99	0.49	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Chromium	27		0.99	0.49	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Cobalt	4.5		0.49	0.21	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Molybdenum	0.68	J	0.99	0.49	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Nickel	30		0.99	0.49	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Silver	ND		0.49	0.099	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Selenium	ND		0.99	0.20	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Antimony	0.37	J	0.99	0.27	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Thallium	ND		0.49	0.25	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Vanadium	29		0.99	0.49	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20
Zinc	47		9.9	4.9	mg/Kg	-	07/17/17 07:50	07/24/17 15:09	20

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.078		0.020	0.012	mg/Kg	-	07/18/17 20:10	07/20/17 02:47	1

# Surrogate Summary

Client: Dudek & Associates  
Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (65-140)
440-188409-A-12 MS	Matrix Spike	77
440-188409-A-12 MSD	Matrix Spike Duplicate	78
440-188435-1	Comp-1	100
LCS 440-417827/3	Lab Control Sample	99
LCSD 440-417827/4	Lab Control Sample Dup	79
MB 440-417827/5	Method Blank	101

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTC1 (40-140)
320-29875-G-8-A MS	Matrix Spike	84
320-29875-G-8-B MSD	Matrix Spike Duplicate	82
440-188435-1	Comp-1	81
LCS 440-417550/2-A	Lab Control Sample	91
MB 440-417550/1-A	Method Blank	82

#### Surrogate Legend

OTC = n-Octacosane

# Method Summary

Client: Dudek & Associates

TestAmerica Job ID: 440-188435-1

Project/Site: Dudek Emeryville-Former Charles Lowe Fac

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics(DRO)/Oil Range Organics (ORO)	SW846	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



# Lab Chronicle

Client: Dudek & Associates  
Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

**Client Sample ID: Comp-1**

**Date Collected: 07/14/17 13:15**

**Date Received: 07/15/17 10:55**

**Lab Sample ID: 440-188435-1**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	5.07 g	10 mL	417827	07/19/17 00:16	EI	TAL IRV
Total/NA	Prep	3546			7.60 g	1 mL	417550	07/16/17 18:21	SMF	TAL IRV
Total/NA	Analysis	8015B		1			417861	07/18/17 22:15	LMB	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	417591	07/17/17 07:50	DT	TAL IRV
Total/NA	Analysis	6020		20			419046	07/24/17 15:09	RC	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	417977	07/18/17 20:10	DB	TAL IRV
Total/NA	Analysis	7471A		1			418242	07/20/17 02:47	EN	TAL IRV

#### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Dudek & Associates  
 Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 440-417827/5**

**Matrix: Solid**  
**Analysis Batch: 417827**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			07/18/17 10:23	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		65 - 140				07/18/17 10:23	1	

**Lab Sample ID: LCS 440-417827/3**

**Matrix: Solid**  
**Analysis Batch: 417827**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
GRO (C4-C12)	1600	1660		ug/Kg		104	70 - 135	
Surrogate	%Recovery	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		65 - 140				07/18/17 10:23	1

**Lab Sample ID: LCSD 440-417827/4**

**Matrix: Solid**  
**Analysis Batch: 417827**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1600	1770		ug/Kg		111	70 - 135	6	20
Surrogate	%Recovery	LCSD Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	79		65 - 140				07/18/17 10:23	1	

**Lab Sample ID: 440-188409-A-12 MS**

**Matrix: Solid**  
**Analysis Batch: 417827**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		1590	1030		ug/Kg		65	60 - 140
Surrogate	%Recovery	MS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	77		65 - 140				07/18/17 10:23	1	

**Lab Sample ID: 440-188409-A-12 MSD**

**Matrix: Solid**  
**Analysis Batch: 417827**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1580	1160		ug/Kg		73	60 - 140	11	30
Surrogate	%Recovery	MSD Qualifier	Limits			Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	78		65 - 140				07/18/17 10:23	1			

TestAmerica Irvine

# QC Sample Results

Client: Dudek & Associates  
 Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

**Lab Sample ID: MB 440-417550/1-A**  
**Matrix: Solid**  
**Analysis Batch: 417861**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 417550**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		07/16/17 18:21	07/18/17 12:02	1
ORO (C23-C40)	ND		5.0	2.5	mg/Kg		07/16/17 18:21	07/18/17 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	82		40 - 140	07/16/17 18:21	07/18/17 12:02	1

**Lab Sample ID: LCS 440-417550/2-A**  
**Matrix: Solid**  
**Analysis Batch: 417861**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 417550**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
C10-C28	66.4	59.5		mg/Kg		90	45 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	91		40 - 140

**Lab Sample ID: 320-29875-G-8-A MS**  
**Matrix: Solid**  
**Analysis Batch: 417861**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 417550**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
C10-C28	9.3		66.7	48.8		mg/Kg		59	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	84		40 - 140

**Lab Sample ID: 320-29875-G-8-B MSD**  
**Matrix: Solid**  
**Analysis Batch: 417861**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 417550**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C10-C28	9.3		66.6	48.1		mg/Kg		58	40 - 120	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	82		40 - 140

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 440-417591/1-A ^20**  
**Matrix: Solid**  
**Analysis Batch: 419046**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 417591**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50	0.25	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Beryllium	ND		0.30	0.15	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Barium	ND		0.50	0.25	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Arsenic	ND		0.50	0.25	mg/Kg		07/17/17 07:50	07/24/17 14:29	20

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# QC Sample Results

Client: Dudek & Associates  
 Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 440-417591/1-A ^20**  
**Matrix: Solid**  
**Analysis Batch: 419046**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 417591**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	ND		0.50	0.25	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Copper	0.603	J	0.99	0.50	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Chromium	ND		0.99	0.50	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Cobalt	ND		0.50	0.21	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Molybdenum	ND		0.99	0.50	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Nickel	ND		0.99	0.50	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Silver	ND		0.50	0.099	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Selenium	ND		0.99	0.20	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Antimony	ND		0.99	0.27	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Thallium	ND		0.50	0.25	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Vanadium	ND		0.99	0.50	mg/Kg		07/17/17 07:50	07/24/17 14:29	20
Zinc	ND		9.9	5.0	mg/Kg		07/17/17 07:50	07/24/17 14:29	20

**Lab Sample ID: LCS 440-417591/2-A ^20**  
**Matrix: Solid**  
**Analysis Batch: 419046**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 417591**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	49.5	46.0		mg/Kg		93	80 - 120
Beryllium	49.5	45.9		mg/Kg		93	80 - 120
Barium	49.5	46.0		mg/Kg		93	80 - 120
Arsenic	49.5	46.4		mg/Kg		94	80 - 120
Cadmium	49.5	46.1		mg/Kg		93	80 - 120
Copper	49.5	46.9		mg/Kg		95	80 - 120
Chromium	49.5	46.9		mg/Kg		95	80 - 120
Cobalt	49.5	46.1		mg/Kg		93	80 - 120
Molybdenum	49.5	45.8		mg/Kg		92	80 - 120
Nickel	49.5	46.8		mg/Kg		95	80 - 120
Silver	24.8	22.5		mg/Kg		91	80 - 120
Selenium	49.5	46.7		mg/Kg		94	80 - 120
Antimony	49.5	47.5		mg/Kg		96	80 - 120
Thallium	49.5	47.3		mg/Kg		96	80 - 120
Vanadium	49.5	46.0		mg/Kg		93	80 - 120
Zinc	49.5	48.1		mg/Kg		97	80 - 120

**Lab Sample ID: 720-80615-B-1-B MS ^20**  
**Matrix: Solid**  
**Analysis Batch: 419046**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 417591**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Lead	0.29	J	49.8	43.2		mg/Kg		86	80 - 120
Beryllium	ND		49.8	44.1		mg/Kg		89	80 - 120
Barium	140	F1	49.8	195		mg/Kg		115	80 - 120
Arsenic	0.57		49.8	45.0		mg/Kg		89	80 - 120
Cadmium	ND		49.8	44.3		mg/Kg		89	80 - 120
Copper	6.9	B	49.8	48.3		mg/Kg		83	80 - 120
Chromium	2.8		49.8	45.8		mg/Kg		87	80 - 120
Cobalt	0.40	J	49.8	43.6		mg/Kg		87	80 - 120
Molybdenum	ND	F1	49.8	38.2	F1	mg/Kg		77	80 - 120

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# QC Sample Results

Client: Dudek & Associates  
 Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 720-80615-B-1-B MS ^20**  
**Matrix: Solid**  
**Analysis Batch: 419046**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 417591**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nickel	1.6		49.8	44.6		mg/Kg		86	80 - 120
Silver	ND		24.9	20.9		mg/Kg		84	80 - 120
Selenium	0.20	J	49.8	44.9		mg/Kg		90	80 - 120
Antimony	ND	F1	49.8	28.0	F1	mg/Kg		56	80 - 120
Thallium	ND	F1	49.8	29.8	F1	mg/Kg		60	80 - 120
Vanadium	2.9		49.8	46.4		mg/Kg		87	80 - 120
Zinc	11		49.8	56.3		mg/Kg		92	80 - 120

**Lab Sample ID: 720-80615-B-1-C MSD ^20**  
**Matrix: Solid**  
**Analysis Batch: 419046**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 417591**  
**%Rec.**  
**RPD**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.29	J	49.8	43.1		mg/Kg		86	80 - 120	0	20
Beryllium	ND		49.8	44.1		mg/Kg		89	80 - 120	0	20
Barium	140	F1	49.8	200	F1	mg/Kg		124	80 - 120	2	20
Arsenic	0.57		49.8	44.9		mg/Kg		89	80 - 120	0	20
Cadmium	ND		49.8	43.6		mg/Kg		88	80 - 120	2	20
Copper	6.9	B	49.8	50.1		mg/Kg		87	80 - 120	4	20
Chromium	2.8		49.8	45.8		mg/Kg		86	80 - 120	0	20
Cobalt	0.40	J	49.8	43.7		mg/Kg		87	80 - 120	0	20
Molybdenum	ND	F1	49.8	38.2	F1	mg/Kg		77	80 - 120	0	20
Nickel	1.6		49.8	44.7		mg/Kg		86	80 - 120	0	20
Silver	ND		24.9	20.6		mg/Kg		83	80 - 120	2	20
Selenium	0.20	J	49.8	45.0		mg/Kg		90	80 - 120	0	20
Antimony	ND	F1	49.8	28.2	F1	mg/Kg		57	80 - 120	1	20
Thallium	ND	F1	49.8	29.3	F1	mg/Kg		59	80 - 120	2	20
Vanadium	2.9		49.8	46.1		mg/Kg		87	80 - 120	1	20
Zinc	11		49.8	56.6		mg/Kg		92	80 - 120	0	20

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 440-417977/1-A**  
**Matrix: Solid**  
**Analysis Batch: 418242**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 417977**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		07/18/17 20:10	07/20/17 01:15	1

**Lab Sample ID: LCS 440-417977/2-A**  
**Matrix: Solid**  
**Analysis Batch: 418242**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 417977**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.800	0.839		mg/Kg		105	80 - 120

# QC Sample Results

Client: Dudek & Associates  
 Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-188409-A-16-E MS  
 Matrix: Solid  
 Analysis Batch: 418242

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 417977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.10		0.784	1.00		mg/Kg		115	70 - 130

Lab Sample ID: 440-188409-A-16-F MSD  
 Matrix: Solid  
 Analysis Batch: 418242

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 417977

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.10		0.800	1.07		mg/Kg		121	70 - 130	6	20

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
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- 14
- 15

# QC Association Summary

Client: Dudek & Associates  
Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## GC VOA

### Analysis Batch: 417827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-188435-1	Comp-1	Total/NA	Solid	8015B	
MB 440-417827/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-417827/3	Lab Control Sample	Total/NA	Solid	8015B	
LCS 440-417827/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-188409-A-12 MS	Matrix Spike	Total/NA	Solid	8015B	
440-188409-A-12 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	

## GC Semi VOA

### Prep Batch: 417550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-188435-1	Comp-1	Total/NA	Solid	3546	
MB 440-417550/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-417550/2-A	Lab Control Sample	Total/NA	Solid	3546	
320-29875-G-8-A MS	Matrix Spike	Total/NA	Solid	3546	
320-29875-G-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

### Analysis Batch: 417861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-188435-1	Comp-1	Total/NA	Solid	8015B	417550
MB 440-417550/1-A	Method Blank	Total/NA	Solid	8015B	417550
LCS 440-417550/2-A	Lab Control Sample	Total/NA	Solid	8015B	417550
320-29875-G-8-A MS	Matrix Spike	Total/NA	Solid	8015B	417550
320-29875-G-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	417550

## Metals

### Prep Batch: 417591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-188435-1	Comp-1	Total/NA	Solid	3050B	
MB 440-417591/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCS 440-417591/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	
720-80615-B-1-B MS ^20	Matrix Spike	Total/NA	Solid	3050B	
720-80615-B-1-C MSD ^20	Matrix Spike Duplicate	Total/NA	Solid	3050B	

### Prep Batch: 417977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-188435-1	Comp-1	Total/NA	Solid	7471A	
MB 440-417977/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-417977/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-188409-A-16-E MS	Matrix Spike	Total/NA	Solid	7471A	
440-188409-A-16-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

### Analysis Batch: 418242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-188435-1	Comp-1	Total/NA	Solid	7471A	417977
MB 440-417977/1-A	Method Blank	Total/NA	Solid	7471A	417977
LCS 440-417977/2-A	Lab Control Sample	Total/NA	Solid	7471A	417977
440-188409-A-16-E MS	Matrix Spike	Total/NA	Solid	7471A	417977
440-188409-A-16-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	417977

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# QC Association Summary

Client: Dudek & Associates  
Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## Metals (Continued)

### Analysis Batch: 419046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-188435-1	Comp-1	Total/NA	Solid	6020	417591
MB 440-417591/1-A ^20	Method Blank	Total/NA	Solid	6020	417591
LCS 440-417591/2-A ^20	Lab Control Sample	Total/NA	Solid	6020	417591
720-80615-B-1-B MS ^20	Matrix Spike	Total/NA	Solid	6020	417591
720-80615-B-1-C MSD ^20	Matrix Spike Duplicate	Total/NA	Solid	6020	417591

# Definitions/Glossary

Client: Dudek & Associates  
Project/Site: Dudek Emeryville-Former Charles Lowe Fac

TestAmerica Job ID: 440-188435-1

## Qualifiers

### GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Dudek & Associates

TestAmerica Job ID: 440-188435-1

Project/Site: Dudek Emeryville-Former Charles Lowe Fac

## Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18 *
Arizona	State Program	9	AZ0671	10-14-17
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18
Hawaii	State Program	9	N/A	01-29-18
Kansas	NELAP Secondary AB	7	E-10420	07-31-17 *
Nevada	State Program	9	CA015312017-3	07-31-17 *
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-17

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine

Chain of Custody Record

<b>Client Information</b> Client Contact: <u>Suzie Smith</u> Company: <u>Dudek &amp; Associates</u> Address: <u>750 Second Street</u> City: <u>Encinitas</u> State: <u>CA</u> Zip: <u>92024</u> Phone: <u>760-942-5147</u> Email: <u>ssmith@dudek.com</u> Project Name: <u>Dudek Emeryville BO</u> Site: <u>Former Charles Love Facility</u>		Sampler: <u>Dylan Durege</u> Lab PM: <u>Roberts, Danielle C</u> Phone: <u>760-213-9067</u> E-Mail: <u>danielle.roberts@testamericainc.com</u>		Carner Tracking No(s): COC No: <u>440-124903-22396.1</u> Page: <u>Page 1 of 1</u> Job #: <u>9029</u>	
Due Date Requested: <u>7/18/17</u> TAT Requested (days): <u>2</u> PO #: <u>Purchase Order not required</u> PO #: <u>44013349</u> Project #: <u>44013349</u> SOW#:		<b>Analysis Requested</b> Total Number of Containers:			
<b>Sample Identification</b> <u>BB COMP-1</u> Sample Date: <u>7/14/17 11:5p</u> Sample Time:		Sample Type (C=Comp, G=grab) <u>C</u> Matrix (W=water, S=solid, O=waste/oil, BT=tissue, AA=air) <u>Solid</u> Preservation Code:		Field Filtered Sample (Yes or No) <u>X</u> Perform MS/MSD (Yes or No) <u>X</u> 6020_7471A_GRO 8015B_DRO - C13-C22/C23-C40	
Special Instructions/Note: <u>TPHg, 20 2015, T22</u>		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA Other:			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: <u>D. Durege</u> Date/Time: <u>7/14/17 1:30p</u> Company: <u>Dudek</u>		Received by: <u>[Signature]</u> Date/Time: <u>7/15/17 10:55</u> Company: <u>JIA</u>			
Relinquished by:		Received by:			
Relinquished by:		Received by:			
Custody Seal No.: <u>FedEx 7796 4745 4248</u> Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: <u>3.3   3.8   12-60</u>			

7/15/17





## Login Sample Receipt Checklist

Client: Dudek & Associates

Job Number: 440-188435-1

**Login Number: 188435**

**List Number: 1**

**Creator: Garcia, Veronica G**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**ATTACHMENT C**  
*Waste Manifest and Weight Ticket*

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number N/A 2. Page 1 of 1 3. Emergency Response Phone (877) 258-9265 4. Waste Tracking Number 17-16234-001

5. Generator's Name and Mailing Address: Emeryville Properties LLC, 1400 Park Avenue, Emeryville, CA 94608, (760) 840-7526  
 Generator's Site Address (if different than mailing address):

6. Transporter 1 Company Name: Ponder Environmental Services Inc, U.S. EPA ID Number: CAR000180737

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Potrero Hills Landfill, 3675 Potrero Hills Ln, Suisun City, CA 94585, (707) 432-4627  
 U.S. EPA ID Number: CAR000089466  
 Facility's Phone:

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. Non-hazardous waste, solid (soil)	003	DM	1,900	P	<del>1200</del>
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information: Profile PHLF-17-629, PO #738561, Job #17-16234, Truck # 307

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name: Joe Anderson (on behalf of Emeryville Properties LLC), Signature: [Signature], Month: 07, Day: 28, Year: 17

15. International Shipments:  Import to U.S.,  Export from U.S., Port of entry/exit: \_\_\_\_\_, Date leaving U.S.: \_\_\_\_\_

16. Transporter Acknowledgment of Receipt of Materials: Transporter Signature (for exports only): \_\_\_\_\_, Date leaving U.S.: \_\_\_\_\_

Transporter 1 Printed/Typed Name: Jason Carlin, Signature: [Signature], Month: 7, Day: 31, Year: 17  
 Transporter 2 Printed/Typed Name: \_\_\_\_\_, Signature: \_\_\_\_\_, Month: \_\_\_\_\_, Day: \_\_\_\_\_, Year: \_\_\_\_\_

17. Discrepancy: 17a. Discrepancy Indication Space:  Quantity,  Type,  Residue,  Partial Rejection,  Full Rejection

17b. Alternate Facility (or Generator): \_\_\_\_\_, Manifest Reference Number: \_\_\_\_\_, U.S. EPA ID Number: \_\_\_\_\_  
 Facility's Phone: \_\_\_\_\_

17c. Signature of Alternate Facility (or Generator): \_\_\_\_\_, Month: \_\_\_\_\_, Day: \_\_\_\_\_, Year: \_\_\_\_\_

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a  
 Printed/Typed Name: \_\_\_\_\_, Signature: [Signature], Month: 7, Day: 31, Year: 17

GENERATOR  
INT'L  
TRANSPORTER  
DESIGNATED FACILITY

POTRERO HILLS LANDFILL, INC.  
weighed at:  
POTRERO HILLS LANDFILL, INC.  
P.O. Box 68  
FAIRFIELD, CA 94533

Deputy: Jaclyn Deleon  
Deposit: Jaclyn Deleon  
BILL TO: 2685  
Ponder Environmental Svc., Inc

Vehicle ID:  
Reference: PHLF17629  
Grid: 12  
HaulCust#: EMERYVILLE  
DriverOn?: N 1716234001  
Route: PO:738561 1716234  
TRLR/LP#: 7M52726 3 DRUMS

Origin: EMERYVILLE  
DATE IN: 07/31/2017 TIME IN: 09:07:14  
DATE OUT: 07/31/2017 TIME OUT: 09:31:49

INBOUND TICKET Number: 01-00816487

SCALE 1 GROSS WT.	12020 LB
SCALE 3 TARE WT.	10000 LB
NET WEIGHT	2020 LB

Qty	Description	Amount
3.00	Drum Disposal	

X \_\_\_\_\_

WEIGHMASTER CERTIFICATE:

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

X \_\_\_\_\_  
(Deputy Signature)

This is to certify that this load does not contain any hazardous materials.