December 28, 2015

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

RE: 1315 Court Street, Alameda CA

Dear Mr. Detterman:

"I do hereby declare under penalty of perjury under the laws of the State of California, that I am authorized to attest to the veracity of the information contained in the report described herein, and to the best of my knowledge the information, conclusions and recommendations presented in this attached report are true and correct. If you have any questions or comments regarding this report, please do not hesitate to contact Dwight Hoenig of Turner/Maclane Inc. at 510-881-8811.

Sincerely,

Paul D. Meuser

TURNER MACLANE

ENVIRONMENTAL CONSULTING, INC.

Dwight Hoenig, President

REMOVAL ACTION COMPLETION REPORT:
Mercury Removal Project, 1315 Court Street, Alameda, California, 94501
(Site Cleanup Program Case #RO0003167)

PROVIDED TO:
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
Attention Mr. Mark Detterman

Report Provided on Behalf of:
Mr. Paul Meuser (property owner)

Report Prepared by: Turner/Maclane Environmental Consulting Inc.
December 28, 2015

Phone: **510-881-8811**

3511 MESA DRIVE
HAYWARD, CA 9452

Cell: **925-580-9649**

TURNER MACLANE

Dwight Hoenig, President

REMOVAL ACTION COMPLETION REPORT:
1315 Court Street, Alameda, California

1.0 Introduction:

This report documents the specific tasks and analytical results associated with a mercury removal action, which was undertaken at the subject property on December 1, 2015. The soil-removal project was required by the Alameda County Health Care Services Agency (ACDEH). The request for the investigation and removal action was made pursuant to California Health and Safety Code §101480, and was issued in a letter dated February 20, 2014.

2.0 Background:

On January 21, 2014, Mr. Paul Meuser (owner of the subject residence) contacted the California Emergency Management Agency and the National Response Center to report a finding of elemental mercury, in soil, at the rear of his home at the subject address. The Alameda County Department of Environmental Health (ACDEH was contacted and, in turn, contacted the Department of Toxic Substances Control (DTSC). Ultimately, on January 29, 2014, the DTSC emergency response contractor, Parc Specialty, arrived on site to conduct an initial evaluation and limited cleanup of an elemental mercury release. (The residence and spill release area are shown on Figure 1.)

According to information provided by the ACDEH, Parc Specialty evaluated the spill site using a hand-held Mercury Vapor Analyzer and completed a removal action consisting of the manual excavation and off-site disposal of approximately two 55-gallon drums of soil and debris. However, based on residual mercury vapor detections and visual observations, some amount of elemental mercury remained on site.

As a result, the ACDEH requested that Mr. Meuser undertake a further investigation and initiate a soil-removal action, as described in California Health and Safety Code §101480. A workplan to complete a combination Soil Vapor Survey with confirmatory Soil Sampling was drafted by Turner/Maclane Environmental Consulting (Turner/Maclane) and submitted to ACDEH on May 6, 2015. The workplan was approved for implementation by the ACDEH on May 11, 2015.

The investigation was completed by Turner/Maclane, with the results reported to the ACDEH in a letter report issued on September 3, 2015. The report included soil vapor data gathered from throughout the area, as well as soil data from seven discreet soil samples collected in and around the apparent area of the mercury release. The data presented in that report defined the vertical and lateral extent of soil contamination, which was found to be present in the immediate vicinity of the north corner of the property, with evidence of mercury contamination also extending to the shallow soil on the adjacent residence located at 1317 Court Street.

Based on the available data, Turner/Maclane proposed a soil and debris removal action in a workplan, which was submitted to the ACDEH on October 9th, 2015. The workplan specified that soil and debris removal would be undertaken to meet the soil clean-up goal prescribed by the ACDEH. That goal

Phone: **510-881-8811** 3511 MESA DRIVE HAYWARD, CA 9452 Cell: **925-580-9649**

(which was based on Regional Water Quality Control Board Environmental Screening Levels, or ESLs) specified that confirmation soil samples should not exceed the mercury ESL of 6.7 milligrams per kilogram (mg/kg). The workplan was conditionally approved (with minor modifications) by the ACDEH on October 21, 2015.

The property owner contracted directly with American Integrated Services (AIS), a licensed environmental contractor to implement the approved workplan.

3.0 Project Implementation:

On the morning of December 1, 2015, AIS mobilized field equipment, a Project Manager, and a team of four Health-and-Safety trained environmental technicians to the site. The specific tasks undertaken to complete the project included the following:

1. Mobilization of field equipment and Personal Protection Equipment ("Level C" PPE), energizing and calibration of field equipment, including mercury vacuum equipment and Mercury Vapor Meter (Jerome J405).

2. Review and sign off by all team members of the project Health and Safety Plan.

3. Placement of visqueen barriers on access points throughout the yard and the access area to the closed-top, roll-off box.

4. Placement and lining of a 10-cubic-yard, closed-top, roll-off box.

5. Field marking of the block wall and soil excavation boundaries.

6. Vacuum removal of visible mercury from the base of the block wall and concrete footings.

7. Removal of several concrete blocks at the base of the wall with continuous vacuuming of small 'blebs' of liquid mercury.

8. Removal and inspection of the upper courses of the block wall with continuous visual inspection for signs of mercury contamination within the blocks.

9. Completion of the block wall inspection, removal and loading of blocks and debris into the roll-off box.

10. Continuous screening for mercury vapor in the soil-removal area. Continuous vacuum removal of mercury from the soil surface during excavation activities.

11. Manual soil excavation from the impacted areas at the north corner of the 1315 Court Street property and southwest corner of 1317 Court Street property.

12. Demolition and removal of approximately 7.5 linear feet of concrete footing at the base of the block wall.

13. Final soil excavation from beneath the removed concrete footing.

14. Excavation and removal of soil from location "8-A" based on anomalous vapor readings recorded at that location during the initial soil vapor assessment completed on June 2, 2015.

15. Final vapor meter readings and collection of confirmation soil samples and sediment samples collected from the mercury vacuum.

16. Demobilization of equipment and contractors.

17. Collection of two additional confirmation samples from 1317 Court Street at the request of ACDEH. (Note: Additional samples collected on December 11, 2015.)

4.0 Discussion:

The removal action was completed in accordance with the approved workplan. The project resulted in the excavation and disposal of approximately 3.3 cubic yards of soil, 36 square feet of concrete block wall, and the solid concrete footing that supported it.

During the course of the removal project, soil and brick surfaces were carefully examined. The mercury vacuum was utilized to remove all visible traces of mercury encountered during the project (Photo #1).

The void spaces in the concrete blocks were also carefully examined for the presence of liquid mercury (Photo #2). It is important to note that the concrete blocks showed no visual evidence of mercury contamination. In addition, following block removal, individual concrete blocks were further evaluated with the use of the Mercury Vapor Meter. No anomalous mercury readings were detected in the brick void spaces. This is a significant finding in that it was previously hypothesized at the time of the initial Turner/Maclane investigation, that a discharge from the block wall may have been the point of origin of the mercury release.

While there were no traces of mercury detected in the actual concrete blocks, mercury was observed to be present in the form of small metallic 'blebs' along the fractures present in the concrete footing that supported the block wall (Photo #3).

Upon further investigation of the soil excavation on the adjacent 1317 Court Street residence, it was observed that a significant volume of liquid Mercury was present in soil, both inside and outside of a broken clay pot, which had been buried at a shallow depth, adjacent to the block wall. (Photo #4)

Importantly, a fracture in the concrete footing adjacent to the clay pot fragments was also observed to extend across the width of the footing, terminating at the location of the original mercury release at 1315 Court Street. (See Photos #5 and #6)

The soil and debris removal action continued using the mercury vacuum, shovels and hand tools until the mercury vapor concentrations throughout the excavation area at the soil interface, were at or below a concentration of 0.64 micrograms per cubic meter (ug/m^3). It was also noted that at the completion of excavation activities, the indicated mercury vapor concentrations were at 0.00 ug/m^3, upwind and within the breathing zone of the excavation area. (During the actual removal-action activities, vapor concentrations at the soil interface ranged from 0.63 to 64.3 ug/m^3)

At the completion of the excavation activities a series of eight confirmation soil samples were collected from the excavation invert. Five of the samples were from the excavation bottom and three were from the excavation side-wall. All of the sidewall samples were collected from a depth of approximately 10 inches below surface grade which corresponded to the depth of the mercury accumulations observed at the clay pot. (Note: At the request of the ACDEH Project Manager, two additional side-wall confirmation samples were collected from the 1317 Court St. property on December 11th, 2015.) The confirmation soil samples were collected in clean laboratory supplied sampling jars and labeled with location, time and date of sampling before transport to the laboratory accompanied by a signed Chain-of- Custody.

The complete certified laboratory reports for this project are provided in the attachments to this report. The results indicate that all of the confirmation samples were below the Environmental Screening Level of 6.7 mg/kg established by the Regional Water Quality Control Board. The extent of the removal action, and the laboratory results are shown graphically on the attached Figure #2. The Certified Analytical results for all l results for total mercury, as reported for the ten confirmation soil samples. (A photo of the completed excavation, remaining block wall, and storage shed is shown in Photo #8.)

In addition to the in-place soil samples, one additional sample was collected from the sediment trap from the mercury vacuum, which had been used to extract the liquid mercury during the removal project. The laboratory analysis indicated mercury was present at a concentration of 1,600 mg/kg.

5.0 Conclusion and Recommendations:

On December 1, 2015, a removal action consistent with the ACDEH-approved workplan was completed at 1315 and 1317 Court Street in Alameda California. A total of approximately 4.6 tons of contaminated soil and 1.2 tons of concrete blocks and concrete debris were removed during this action.

Information and observations gathered during the course of this project indicate that the source of the original mercury spill was located on the property located at 1317 Court Street. The apparent pathway of migration of the mercury found on the 1315 Court Street was determined to be a fracture in the concrete footing adjacent to the mercury contaminated clay pot located on the 1317 Court Street property, which allowed the mercury to migrate onto the 1315 Court Street property.

The contaminated soil and debris were transported in a Department of Transportation approved, closed-top, roll-off bin to the permitted Hazardous Waste Management Landfill located at Kettleman City, California. The waste shipment was sent under signed EPA Manifest # 008874745-JJK. (Attached)

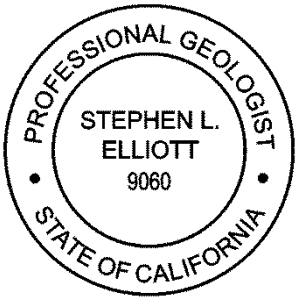
The laboratory data for all confirmation soil samples indicates that the soil clean-up goal specified by the ACDEH in the workplan approval was attained for this project.

Based on the completed removal actions and the confirmation soil data presented in this report, we recommend and are requesting the issuance of a "Case Closure Letter" for this property be issued by the ACDEH.

Should you have any questions or need additional information please do not hesitate to contact Turner/Maclane Inc.

Dwight Hoenig
President, Turner/Maclane Inc.

Steve Elliot P.G.
American Integrated Services Inc.



Dwight Hoenig, President

FIGURES

Phone: **510-881-8811**
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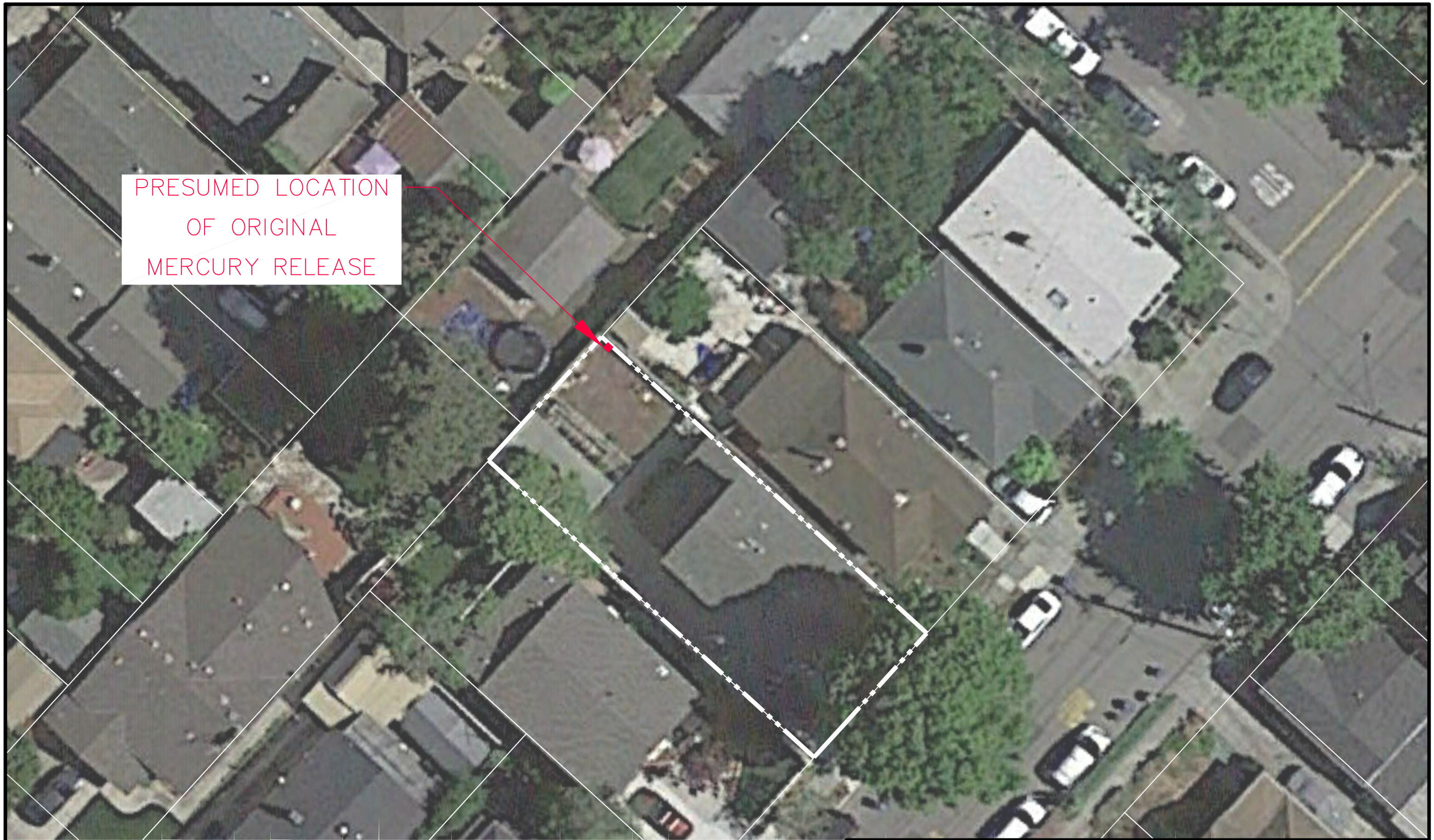
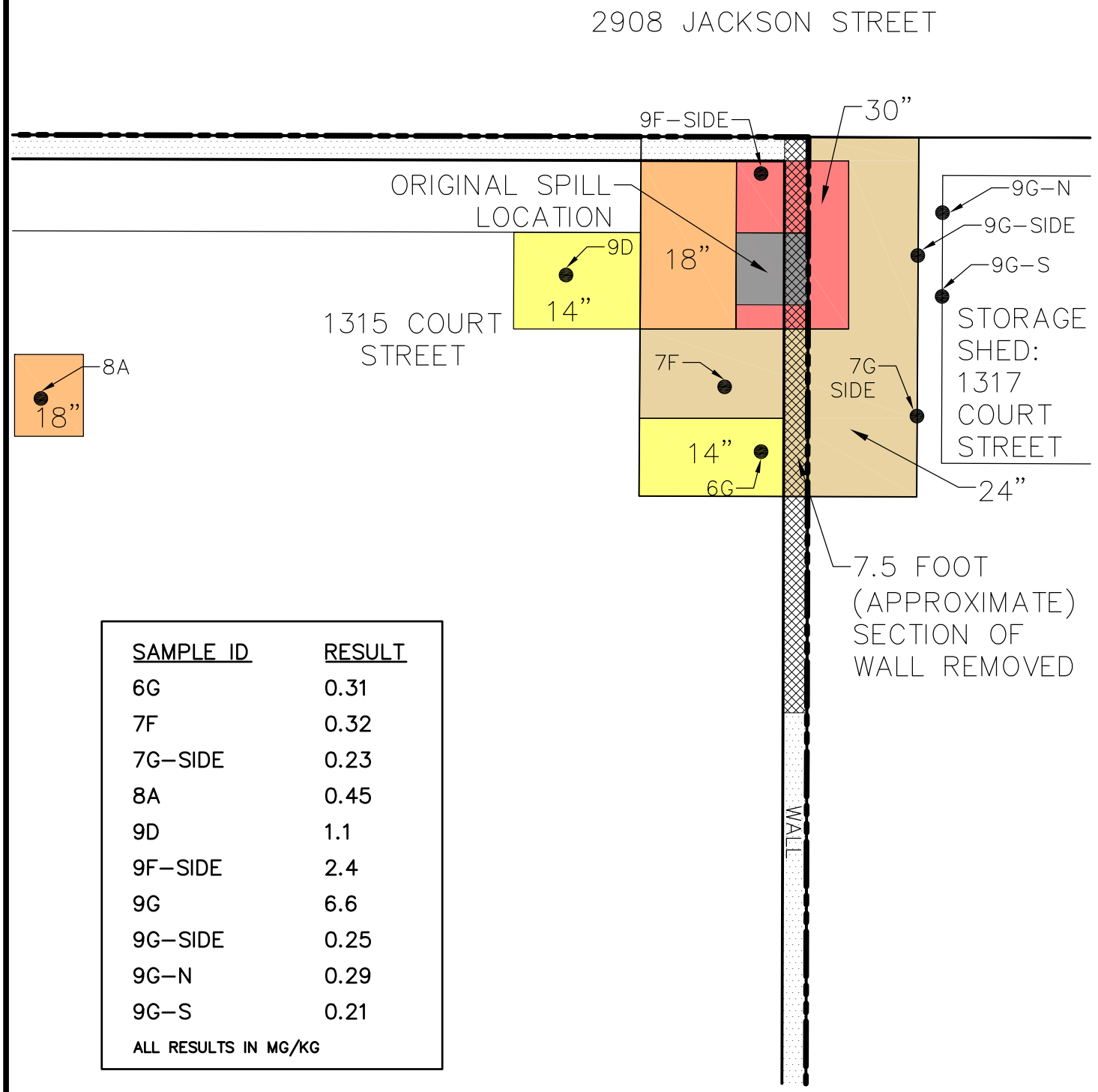


FIGURE #1

SITE LOCATION; 1315 COURT STREET



SAMPLE ID	RESULT
6G	0.31
7F	0.32
7G-SIDE	0.23
8A	0.45
9D	1.1
9F-SIDE	2.4
9G	6.6
9G-SIDE	0.25
9G-N	0.29
9G-S	0.21

ALL RESULTS IN MG/KG

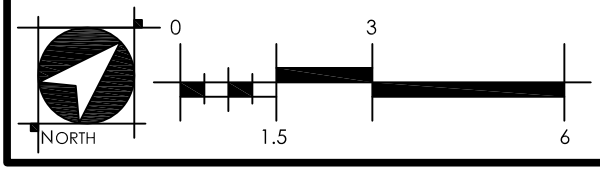


FIGURE #2

1315 COURT STREET, ALAMEDA CA

WALL REMOVAL AND SOIL EXCAVATION

TURNER MACLANE

Dwight Hoenig, President

PROJECT PHOTOS

Phone: **510-881-8811**

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HAYWARD, CA 9452

Cell: **925-580-9649**

Project No. TM #12.01.15	**Description**	Initial removal and Mercury vacuuming	**Photo #1**
	Name	1315 & 1317 Court St. Alameda CA.	**Photo Date** December 1, 2015

Project No. TM 12.01.15	**Description**	Wall Demolition and Concrete Block Inspection	**Photo #2**
	Name	1315& 1317 Court St. Alameda CA.	**Photo Date** December 1. 2015

Project No. TM 12.01.15	**Description**	Disseminated ‘blebs’ of Mercury found on a fracture in the wall footing.	**Photo #3**
	Name	1315 & 1317 Court St. Alameda Ca.	**Photo Date** December 1, 2015

Project No. TM 12.01.15	**Description**	Broken clay pot with liquid Mercury present inside	**Photo #4**
	Name	1315 & 1317 Court St. Alameda Ca.	**Photo Date** December 1, 2015

Project No. TM 12.01.15	**Description**	Clay Pot with root mass expressing liquid Mercury	**Photo #5**
	Name	1317 Court Street, Alameda CA.	**Photo Date** December 1, 2015

Project No. TM 12.01.15	**Description**	Mercury accumulations and adjacent fracture in concrete wall footing.	**Photo #6**
	Name	`1317 Court St. Alameda CA.	**Photo Date** December 1, 2015

Project No. TM 12.01.15	**Description**	Excavation at the location of Vapor Sample 8-A	**Photo #7**
	Name	1315 Court St. Alameda Ca.	**Photo Date** December 1, 2015

Project No. TM 12.01.15	**Description**	Removal area showing excavation profile, remaining wall and concrete footing	**Photo #8**
	Name	1315 & 1317 Court St. Alameda CA.	**Photo Date** December 1, 2015

TURNER MACLANE

Dwight Hoenig, President

CERTIFIED ANALYTICAL RESULTS

Phone: **510-881-8811**

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HAYWARD, CA 9452

Cell: **925-580-9649**


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 272055
ANALYTICAL REPORT

Turner Maclane Inc.	Project : STANDARD
3511 La Mesa Drive	Location : P. Measer
Hayward, CA 94542	Level : II

Sample ID	Lab ID
7-G-SIDE	272055-001
9-G-SIDE	272055-002
9-F-SIDE	272055-003
6-G	272055-004
9-D	272055-005
8-A	272055-006
7-F	272055-007
9-G	272055-008
VACUUM #1	272055-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/08/2015

Mike Dahlquist
Project Manager
mike.dahlquist@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**272055**
Client:	**Turner Maclane Inc.**
Location:	**P. Measer**
Request Date:	**12/01/15**
Samples Received:	**12/01/15**

This data package contains sample and QC results for nine soil samples, requested for the above referenced project on 12/01/15. The samples were received cold and intact.

Metals (EPA 7471A):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
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Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 272055

Project No:

Project Name: P. Menser

Project P. O. No:

EDD Format: Report Level ☑ II ☐ III ☐ IV

Turnaround Time: ☐ RUSH _____ ☑ Standard

Sampler: D. Hoenig

Report To: Dwight Hoenig

Company: Turner Maclane Inc.

Telephone: 510-881-8811

Email: Dwight@TurnerMaclane.Com

Lab No.	Sample ID.	SAMPLING		MATRIX		# of Containers	CHEMICAL PRESERVATIVE					ANALYTICAL REQUEST
		Date Collected	Time Collected	Water	Solid		HCl	H2SO4	HNO3	NaOH	None	TPH Mercury
1	7-G-Side	12/1/2015	15:11		✓						✓	✓
2	9-G-Side	"	15:09		✓						✓	✓
3	9-F-Side	"	15:10		✓						✓	✓
4	6-G	"	14:58		✓						✓	✓
5	9-D	"	14:52		✓						✓	✓
6	8-A	"	14:48		✓						✓	✓
7	7-F	"	14:56		✓						✓	✓
8	9-G	"	15:04		✓						✓	✓
9	Vacuum #1	"	15:15		✓						✓	✓

Notes:

Need Results by 12/9

SAMPLE RECEIPT
☐ Intact
☐ Cold
☑ On Ice
☐ Ambient

RELINQUISHED BY:

12/1/2015 DATE: 12/1/15 TIME: 16:05

DATE: TIME:

DATE: TIME:

RECEIVED BY:

Pat Hornaday DATE: 12/1/15 TIME: 16:05

DATE: TIME:

DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 272055 Date Received 12/1/15 Number of coolers 0
Client PMeaser Project P. Measer

Date Opened 12/1 By (print) CJN (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many Name Date
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C)

☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? (YES) NO
12. Are sample labels present, in good condition and complete? (YES) NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? YES NO (N/A)
17. Did you document your preservative check? (pH strip lot#) YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)
21. Was the client contacted concerning this sample delivery? YES (NO)
If YES, Who was called? By Date:

COMMENTS

Rev 12, 12/01/15

Curtis & Tompkins, Ltd.

Detections Summary for 272055

Results for any subcontracted analyses are not included in this summary.

Client : Turner Maclane Inc.
Project : STANDARD
Location : P. Measer

Client Sample ID : 7-G-SIDE Laboratory Sample ID : 272055-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	0.23		0.017	mg/Kg	As Recd	1.000	EPA 7471A	METHOD

Client Sample ID : 9-G-SIDE Laboratory Sample ID : 272055-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	0.25		0.016	mg/Kg	As Recd	1.000	EPA 7471A	METHOD

Client Sample ID : 9-F-SIDE Laboratory Sample ID : 272055-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	2.4		0.18	mg/Kg	As Recd	10.00	EPA 7471A	METHOD

Client Sample ID : 6-G Laboratory Sample ID : 272055-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	0.31		0.016	mg/Kg	As Recd	1.000	EPA 7471A	METHOD

Client Sample ID : 9-D Laboratory Sample ID : 272055-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	1.1		0.18	mg/Kg	As Recd	10.00	EPA 7471A	METHOD

Client Sample ID : 8-A Laboratory Sample ID : 272055-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	0.45		0.018	mg/Kg	As Recd	1.000	EPA 7471A	METHOD

Client Sample ID : 7-F Laboratory Sample ID : 272055-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	0.32		0.015	mg/Kg	As Recd	1.000	EPA 7471A	METHOD

Client Sample ID : 9-G Laboratory Sample ID : 272055-008

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	6.6		0.16	mg/Kg	As Recd	10.00	EPA 7471A	METHOD

Client Sample ID : VACUUM #1 Laboratory Sample ID : 272055-009

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	1,600		160	mg/Kg	As Recd	10000	EPA 7471A	METHOD

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	272055	Location:	P. Measer
Client:	Turner Maclane Inc.	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	229992
Matrix:	Soil	Sampled:	12/01/15
Units:	mg/Kg	Received:	12/01/15
Basis:	as received	Prepared:	12/02/15

Field ID	Type	Lab ID	Result	RL	Diln Fac	Analyzed
7-G-SIDE	SAMPLE	272055-001	0.23	0.017	1.000	12/02/15
9-G-SIDE	SAMPLE	272055-002	0.25	0.016	1.000	12/02/15
9-F-SIDE	SAMPLE	272055-003	2.4	0.18	10.00	12/02/15
6-G	SAMPLE	272055-004	0.31	0.016	1.000	12/02/15
9-D	SAMPLE	272055-005	1.1	0.18	10.00	12/02/15
8-A	SAMPLE	272055-006	0.45	0.018	1.000	12/03/15
7-F	SAMPLE	272055-007	0.32	0.015	1.000	12/03/15
9-G	SAMPLE	272055-008	6.6	0.16	10.00	12/03/15
VACUUM #1	SAMPLE	272055-009	1,600	160	10,000	12/03/15
	BLANK	QC815071	ND	0.017	1.000	12/02/15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	272055	Location:	P. Measer
Client:	Turner Maclane Inc.	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	229992
MSS Lab ID:	271977-001	Sampled:	11/25/15
Matrix:	Soil	Received:	11/25/15
Units:	mg/Kg	Prepared:	12/02/15
Basis:	as received	Analyzed:	12/02/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC815072		0.2083	0.2213	106	80-120		
BSD	QC815073		0.2083	0.2286	110	80-120	3	20
MS	QC815074	0.06972	0.2155	0.3178	115	69-142		
MSD	QC815075		0.2083	0.3154	118	69-142	2	36

RPD= Relative Percent Difference


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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 272370
ANALYTICAL REPORT

Turner Maclane Inc.	Project : STANDARD
3511 La Mesa Drive	Location : P. Measer
Hayward, CA 94542	Level : II

Sample ID	Lab ID
9-G-N	272370-001
9-G-S	272370-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/15/2015

Mike Dahlquist
Project Manager
mike.dahlquist@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**272370**
Client:	**Turner Maclane Inc.**
Location:	**P. Measer**
Request Date:	**12/11/15**
Samples Received:	**12/11/15**

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 12/11/15. The samples were received cold and intact.

Metals (EPA 7471A):
No analytical problems were encountered.

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 272370 Date Received 12/11/15 Number of coolers 0
Client Turner Mediate Project P. Measer

Date Opened 12/11 By (print) BL (sign)
Date Logged in ✓ By (print) ✓ (sign) ✓

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many Name Date
2B. Were custody seals intact upon arrival? YES NO (N/A)
3. Were custody papers dry and intact when received? ~~YES~~ NO
4. Were custody papers filled out properly (ink, signed, etc)? ~~YES~~ NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☒ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☒ None Temp(°C)

☐ Temperature blank(s) included? ☐ Thermometer# ☐ IR Gun#

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? ~~YES~~ NO
10. Are there any missing / extra samples? YES (NO)
11. Are samples in the appropriate containers for indicated tests? ~~YES~~ NO
12. Are sample labels present, in good condition and complete? ~~YES~~ NO
13. Do the sample labels agree with custody papers? (YES) NO
14. Was sufficient amount of sample sent for tests requested? (YES) NO
15. Are the samples appropriately preserved? YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? YES NO (N/A)
17. Did you document your preservative check? (pH strip lot#) YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)
21. Was the client contacted concerning this sample delivery? YES (NO)
If YES, Who was called? By Date:

COMMENTS

Rev 12, 12/01/15

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 212370

Project No:

Project Name: P. Messer

Project P. O. No:

EDD Format: Report Level ☐ II ☐ III ☐ IV

Turnaround Time: ☑ RUSH 2 day ☐ Standard

Sampler: Dwight Hoenig

Report To: Dwight Hoenig

Company: Turner Maclane

Telephone: 510-881-8811

Email: Dwight@TurnerMaclane.Com

ANALYTICAL REQUEST

Total Mercury ✓ ✓

Lab No.	Sample ID.	SAMPLING		MATRIX				# of Containers	CHEMICAL PRESERVATIVE				
		Date Collected	Time Collected	Water	Solid				HCl	H2SO4	HNO3	NaOH	None
	9-G-N	12/11/15	12:45		✓								✓
	9-G-S	12/11/15	12:40		✓								✓

Notes:

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 12/11/15 TIME: 1316
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 12/11/15 TIME: 13:16
DATE: TIME:
DATE: TIME:

Curtis & Tompkins, Ltd.

Detections Summary for 272370

Results for any subcontracted analyses are not included in this summary.

Client : Turner Maclane Inc.
Project : STANDARD
Location : P. Measer

Client Sample ID : 9-G-N Laboratory Sample ID : 272370-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	0.29		0.016	mg/Kg	As Recd	1.000	EPA 7471A	METHOD

Client Sample ID : 9-G-S Laboratory Sample ID : 272370-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Mercury	0.21		0.017	mg/Kg	As Recd	1.000	EPA 7471A	METHOD

Curtis & Tompkins, Ltd.

Mercury by Cold Vapor AA

Lab #:	272370	Location:	P. Measer
Client:	Turner Maclane Inc.	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	230357
Matrix:	Soil	Sampled:	12/11/15
Units:	mg/Kg	Received:	12/11/15
Basis:	as received	Prepared:	12/14/15
Diln Fac:	1.000	Analyzed:	12/14/15

Field ID	Type	Lab ID	Result	RL
9-G-N	SAMPLE	272370-001	0.29	0.016
9-G-S	SAMPLE	272370-002	0.21	0.017
	BLANK	QC816576	ND	0.017

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Mercury by Cold Vapor AA

Lab #:	272370	Location:	P. Measer
Client:	Turner Maclane Inc.	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	230357
Field ID:	ZZZZZZZZZZ	Sampled:	12/04/15
MSS Lab ID:	272186-001	Received:	12/04/15
Units:	mg/Kg	Prepared:	12/14/15
Basis:	as received	Analyzed:	12/14/15
Diln Fac:	1.000		

Type	Lab ID	Matrix	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC816577	Soil		0.2083	0.2086	100	80-120		
BSD	QC816578	Soil		0.2083	0.2170	104	80-120	4	20
MS	QC816579	Miscell.	<0.005085	0.2273	0.2384	105	69-142		
MSD	QC816580	Miscell.		0.2193	0.2340	107	69-142	2	36

RPD= Relative Percent Difference

TURNER MACLANE

Dwight Hoenig, President

WASTE MANIFEST

Phone: **510-881-8811**

3511 MESA DRIVE
HAYWARD, CA 9452

Cell: **925-580-9649**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAC002937773	1	866-812-9563	008874745 JJK

GENERATOR

5. Generator's Name and Mailing Address
MR. PAUL MEOSER
1315 COURT ST ALAMEDA CA, 94501
Generator's Phone: (415) 596-8234

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: AMERICAN INTEGRATED SERVICES INC. — U.S. EPA ID Number: CAR000148338

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

8. Designated Facility Name and Site Address
WASTE MANAGEMENT - KETTLEMAN HILLS FACILITY
35251 OLD SKYLINE RD KETTLEMAN CITY, CA 93239
Facility's Phone: (559) 309 7688
U.S. EPA ID Number: CAT000646117

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON RCRA HAZARDOUS WASTE SOLID (SOIL W/ STLC MERCURY)	01	CM	5	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
WEAR PROTECTIVE EQUIPMENT WHILE HANDLING. WEIGHTS OR VOLUMS ARE APPROXIMATE. 24 HOUR EMERGENCY NUMBER (866) 812 9563
PROJECT # 75042
PROFILE # CAG009149

15. **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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT ONLY Hector Aguirre Jr. — Signature — Month 12 Day 01 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARCO MARTINEZ — Signature — Month 12 Day 01 Year 15

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ramona R. Cerveny — Signature — Month 12 Day 11 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)