

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Friday, July 12, 2013 9:06 AM
To: 'Cem Atabek'
Cc: Kris Larson
Subject: RE: ACEH Correspondence for RO3009

Cem, Kris,
Thanks. Please incorporate the data into the final report so that it's all captured in one document.

*Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org*

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

From: Cem Atabek [mailto:catabek@ninyoandmoore.com]
Sent: Thursday, July 11, 2013 6:01 PM
To: Detterman, Mark, Env. Health
Cc: Kris Larson
Subject: RE: ACEH Correspondence for RO3009

Hi Mark, attached are the analytical results for the two composite samples of the imported recycled crushed concrete backfill material. The only detections were minor concentrations of TPHd, TPHmo, fluoranthene, and pyrene. We will approve the demolition contractor to continue backfilling the pits with this material unless we here otherwise from you.

Thanks,

-Cem

Cem R. Atabek
Senior Project Engineer
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
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**New San Jose office
2149 O'Toole Avenue, Suite 10
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)**

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-----Original Message-----

From: Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]
Sent: Thursday, July 11, 2013 12:03 PM
To: Cem Atabek
Cc: Kris Larson; Roe, Dilan, Env. Health; Walter R. Pierce
Subject: RE: ACEH Correspondence for RO3009

Cem and Kris,

Thank you for your comments. In regards to 1b, 1c, 1d, and 1g; these seem reasonable and are requested to be placed in the requested CAP Addendum. The previously forwarded test interval for concrete seems reasonable as well and should be included in the addendum.

In regards to the arsenic background determination, I refer to the first page of the 2007 DTSC document. At the bottom of the page, Option 2 states that the data set may include data from the site, as well as background values from the immediate area. At present the arsenic calculations only involve "data from the site", and not "background values from the immediate area". It is ACEHs judgment that calculations may have determined site background arsenic concentrations, but has not determined background concentrations in the area (or public health risks, previously addressed in an email). As stated in the earlier email, this is very similar to determining that a gas station has high background benzene concentrations due to a release; it does not address area vicinity background concentrations (or public health risks). Determination of the background becomes very important at sites where higher values are proposed, and that gets into sample density. The number of samples from this site appears to be fairly limited, based on a review of the following document (<http://www.dtsc.ca.gov/AssessingRisk/upload/backgrnd.pdf>). Also a review of the executive summary of the arsenic Master's thesis, indicates that 11 mg/kg is the upper bound within undifferentiated flatland soils, but also indicates that Holocene alluvium and Pleistocene alluvium have much lower mean concentrations than indicated with onsite calculations. I've not checked, but I would expect the site vicinity to fit one of these other categories. My personal experience from several sites also informs me that background concentrations are generally closer to those means, and upper bounds have been below 11 mg/kg; however, I do recognize that each site is different.

We should discuss these issues further, but one thought, will the site be an unpaved or paved corp. yard?

Mark Detterman
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<http://www.acgov.org/aceh/lop/ust.htm>

From: Cem Atabek [<mailto:catabek@ninyoandmoore.com>]
Sent: Wednesday, July 10, 2013 10:22 AM
To: Detterman, Mark, Env. Health
Cc: Kris Larson; Drogos, Donna, Env. Health; Roe, Dilan, Env. Health; Walter R. Pierce
Subject: RE: ACEH Correspondence for RO3009

Hi Mark, below are comments we have in response to your directive letter dated June 28, 2013:

1.a. Given that the ESL for arsenic is driven by human health risk, it's likely that any further risk assessment will be non-productive because the results will most likely be similar to the existing Commercial ESLs. Therefore; it's our opinion that a site specific human health risk assessment for arsenic will not provide any benefit. Because background arsenic is commonly detected throughout the region at concentrations exceeding Commercial ESLs, we feel that establishing an arsenic cleanup goal should be instead based on a site specific evaluation of background arsenic similar to the method used in the attached *Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals for Proposed and Existing School Sites* prepared by the DTSC. Because this strategy has been used successfully on school facilities throughout the state where the potential for risk of exposure to a more sensitive population (children) is far more likely than our site (which will be developed into a city maintenance facility), using this strategy appears to be the most effective way to establish CGs for 540 Cleveland Avenue.

1.b. Collection of bottom samples for areas of excavation of up to 50' by 50' to a specific depth is common practice for us and regulatory agencies have always agreed with this approach. Collection of bottom confirmation samples for every 250 square feet (approximately 16' by 16' area) would significantly increase project costs, and would likely provide much more information than necessary given that the contaminants of concern are heavy petroleum hydrocarbons (which wouldn't migrate either vertically or laterally a significant distance beneath the shallow groundwater table) and metals which are also not very mobile. We propose a compromise of one bottom sample for up to 25' by 25' of excavation area to a specific depth, and we propose to collect the bottom sample from areas where physical signs of impacts (staining, odors, etc.) are most pronounced as we will do for all confirmation samples. The proposed depths of sidewall confirmation samples are the depths where the most significant impacts were previously detected within the excavation areas as discussed in Section 13.8 of the CAP and indicated in Table 6 of the CAP.

1.c. Sidewall samples were not proposed for excavation EX1 because step-out samples defined the limits of impacts in this area. This approach was previously approved by ACEH in our original CAP, however we can add sidewall confirmation samples to EX1 if you feel it is necessary. We did not propose sidewall samples at the east end of excavations EX1 or EX2 because these sidewalls will fall beneath the edge of the former building slab which we assumed would have prevented impacts from extending in that direction, however we will add confirmation samples to the east side of these excavations to confirm this. There will be no sidewalls at the east side of EX4 or the north side of EX5 because of their locations adjacent to each other, a previous test pit, and Pit 2.

1.d. The proposed excavation depth of 2 feet in EX8 is based the results from Boring B-19 and B-14. No impacts from TPHho were detected in boring B-14A at 4 to 5 feet bgs. If areas of major staining are observed to remain within EX-8 after excavation to 2 feet bgs or within the eastern sidewall of EX10 after excavation to 6 feet bgs, we may perform deeper excavation within EX8 as necessary.

1.g. Regarding the relocation of the site monitoring wells, we recommend moving monitoring well MW-2 to just north of excavation EX9.

Thanks,

-Cem

Cem R. Atabek
Senior Project Engineer
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New San Jose office
2149 O'Toole Avenue, Suite 10

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-----Original Message-----

From: Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]

Sent: Friday, June 28, 2013 5:19 PM

To: Walter R. Pierce

Cc: Kris Larson; Cem Atabek; Drogos, Donna, Env. Health; Roe, Dilan, Env. Health; dehloptoxic, Env. Health; Detterman, Mark, Env. Health

Subject: ACEH Correspondence for RO3009

Dear Interested Parties,

Attached is Alameda County Environmental Health's (ACEH) correspondence for your case, RO0003009.

Please add our e-mail address to your address book to prevent future e-mails from being filtered as spam.

Sincerely,

ACEH

*Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
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Email: mark.detterman@acgov.org*

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TestAmerica

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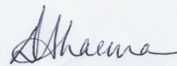
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-50816-1
Client Project/Site: Western Forge & Flange

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Cem Atabek



Authorized for release by:
7/11/2013 5:48:03 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

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www.testamericainc.com

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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Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Definitions/Glossary | 3 |
| Case Narrative | 4 |
| Detection Summary | 5 |
| Client Sample Results | 6 |
| QC Sample Results | 8 |
| QC Association Summary | 11 |
| Lab Chronicle | 12 |
| Certification Summary | 13 |
| Method Summary | 14 |
| Sample Summary | 15 |
| Subcontract Data | 16 |
| Chain of Custody | 22 |
| Receipt Checklists | 23 |

Definitions/Glossary

Client: Ninyo & Moore
Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ▫ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| 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 |
| 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) |

Case Narrative

Client: Ninyo & Moore
Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Job ID: 720-50816-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-50816-1

Comments

No additional comments.

Receipt

The samples were received on 7/10/2013 6:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS Semi VOA

Method 8270C SIM: The following sample was diluted due to the color: CONCRETE COMPOSITE-1 (720-50816-1), CONCRETE COMPOSITE-2 (720-50816-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

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Detection Summary

Client: Ninyo & Moore
Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Client Sample ID: CONCRETE COMPOSITE-1

Lab Sample ID: 720-50816-1

Sample Analysis Not Complete.

Client Sample ID: CONCRETE COMPOSITE-2

Lab Sample ID: 720-50816-2

Sample Analysis Not Complete.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Ninyo & Moore
 Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Client Sample ID: CONCRETE COMPOSITE-1

Lab Sample ID: 720-50816-1

Date Collected: 07/10/13 12:00

Matrix: Solid

Date Received: 07/10/13 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Acenaphthylene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Anthracene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Benzo[a]anthracene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Benzo[a]pyrene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Benzo[b]fluoranthene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Benzo[g,h,i]perylene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Benzo[k]fluoranthene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Chrysene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Dibenz(a,h)anthracene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Fluoranthene | 11 | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Fluorene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Indeno[1,2,3-cd]pyrene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Naphthalene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Phenanthrene | 11 | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Pyrene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 90 | | 33 - 120 | | | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |
| Terphenyl-d14 | 102 | | 35 - 146 | | | | 07/10/13 20:06 | 07/11/13 15:43 | 2 |

Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 67 | | 0.99 | | mg/Kg | | 07/11/13 10:27 | 07/11/13 13:39 | 1 |
| Motor Oil Range Organics [C24-C36] | 92 | | 50 | | mg/Kg | | 07/11/13 10:27 | 07/11/13 13:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| p-Terphenyl | 85 | | 40 - 130 | | | | 07/11/13 10:27 | 07/11/13 13:39 | 1 |

Client Sample Results

Client: Ninyo & Moore
 Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Client Sample ID: CONCRETE COMPOSITE-2

Lab Sample ID: 720-50816-2

Date Collected: 07/10/13 13:00

Matrix: Solid

Date Received: 07/10/13 18:20

Method: 8270C SIM - PAHs by GCMS (SIM)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Acenaphthene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Acenaphthylene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Anthracene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Benzo[a]anthracene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Benzo[a]pyrene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Benzo[b]fluoranthene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Benzo[g,h,i]perylene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Benzo[k]fluoranthene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Chrysene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Dibenz(a,h)anthracene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Fluoranthene | 11 | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Fluorene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Indeno[1,2,3-cd]pyrene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Naphthalene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Phenanthrene | ND | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Pyrene | 11 | | 9.8 | | ug/Kg | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl | 82 | | 33 - 120 | | | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |
| Terphenyl-d14 | 99 | | 35 - 146 | | | | 07/10/13 20:06 | 07/11/13 16:06 | 2 |

Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28] | 71 | | 1.0 | | mg/Kg | | 07/11/13 10:27 | 07/11/13 14:08 | 1 |
| Motor Oil Range Organics [C24-C36] | 93 | | 50 | | mg/Kg | | 07/11/13 10:27 | 07/11/13 14:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| p-Terphenyl | 53 | | 40 - 130 | | | | 07/11/13 10:27 | 07/11/13 14:08 | 1 |

QC Sample Results

Client: Ninyo & Moore
Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-139862/1-A

Matrix: Solid

Analysis Batch: 139906

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 139862

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Acenaphthene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Acenaphthylene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Anthracene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Benzo[a]anthracene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Benzo[a]pyrene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Benzo[b]fluoranthene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Benzo[g,h,i]perylene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Benzo[k]fluoranthene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Chrysene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Dibenz(a,h)anthracene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Fluoranthene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Fluorene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Naphthalene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Phenanthrene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Pyrene | ND | | 5.0 | | ug/Kg | | 07/10/13 10:49 | 07/10/13 18:13 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl | 74 | | 33 - 120 | 07/10/13 10:49 | 07/10/13 18:13 | 1 |
| Terphenyl-d14 | 95 | | 35 - 146 | 07/10/13 10:49 | 07/10/13 18:13 | 1 |

Lab Sample ID: LCS 720-139862/2-A

Matrix: Solid

Analysis Batch: 139906

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139862

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Acenaphthene | 332 | 258 | | ug/Kg | | 78 | 49 - 120 |
| Acenaphthylene | 332 | 277 | | ug/Kg | | 84 | 52 - 120 |
| Anthracene | 332 | 284 | | ug/Kg | | 86 | 52 - 120 |
| Benzo[a]anthracene | 332 | 304 | | ug/Kg | | 92 | 52 - 120 |
| Benzo[a]pyrene | 332 | 307 | | ug/Kg | | 93 | 54 - 120 |
| Benzo[b]fluoranthene | 332 | 320 | | ug/Kg | | 96 | 51 - 120 |
| Benzo[g,h,i]perylene | 332 | 318 | | ug/Kg | | 96 | 48 - 120 |
| Benzo[k]fluoranthene | 332 | 313 | | ug/Kg | | 95 | 56 - 120 |
| Chrysene | 332 | 272 | | ug/Kg | | 82 | 40 - 120 |
| Dibenz(a,h)anthracene | 332 | 331 | | ug/Kg | | 100 | 50 - 120 |
| Fluoranthene | 332 | 293 | | ug/Kg | | 88 | 57 - 120 |
| Fluorene | 332 | 270 | | ug/Kg | | 81 | 52 - 120 |
| Indeno[1,2,3-cd]pyrene | 332 | 323 | | ug/Kg | | 97 | 48 - 120 |
| Naphthalene | 332 | 249 | | ug/Kg | | 75 | 46 - 120 |
| Phenanthrene | 332 | 259 | | ug/Kg | | 78 | 48 - 120 |
| Pyrene | 332 | 321 | | ug/Kg | | 97 | 53 - 120 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl | 81 | | 33 - 120 |
| Terphenyl-d14 | 101 | | 35 - 146 |

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-139862/3-A

Matrix: Solid

Analysis Batch: 139906

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 139862

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| | | | | | | | | | |
| Acenaphthene | 331 | 258 | | ug/Kg | | 78 | 49 - 120 | 0 | 20 |
| Acenaphthylene | 331 | 268 | | ug/Kg | | 81 | 52 - 120 | 3 | 20 |
| Anthracene | 331 | 285 | | ug/Kg | | 86 | 52 - 120 | 0 | 20 |
| Benzo[a]anthracene | 331 | 316 | | ug/Kg | | 95 | 52 - 120 | 4 | 20 |
| Benzo[a]pyrene | 331 | 318 | | ug/Kg | | 96 | 54 - 120 | 4 | 20 |
| Benzo[b]fluoranthene | 331 | 321 | | ug/Kg | | 97 | 51 - 120 | 0 | 20 |
| Benzo[g,h,i]perylene | 331 | 330 | | ug/Kg | | 99 | 48 - 120 | 4 | 20 |
| Benzo[k]fluoranthene | 331 | 328 | | ug/Kg | | 99 | 56 - 120 | 5 | 20 |
| Chrysene | 331 | 282 | | ug/Kg | | 85 | 40 - 120 | 4 | 20 |
| Dibenz(a,h)anthracene | 331 | 340 | | ug/Kg | | 103 | 50 - 120 | 3 | 20 |
| Fluoranthene | 331 | 300 | | ug/Kg | | 91 | 57 - 120 | 2 | 20 |
| Fluorene | 331 | 270 | | ug/Kg | | 81 | 52 - 120 | 0 | 20 |
| Indeno[1,2,3-cd]pyrene | 331 | 333 | | ug/Kg | | 100 | 48 - 120 | 3 | 20 |
| Naphthalene | 331 | 249 | | ug/Kg | | 75 | 46 - 120 | 0 | 20 |
| Phenanthrene | 331 | 260 | | ug/Kg | | 78 | 48 - 120 | 0 | 20 |
| Pyrene | 331 | 324 | | ug/Kg | | 98 | 53 - 120 | 1 | 20 |

| Surrogate | LCSD | | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Fluorobiphenyl | 80 | | 33 - 120 |
| Terphenyl-d14 | 104 | | 35 - 146 |

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-139942/1-A

Matrix: Solid

Analysis Batch: 139928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 139942

| Analyte | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Diesel Range Organics [C10-C28] | ND | | 0.99 | | mg/Kg | | 07/11/13 10:27 | 07/11/13 14:03 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 49 | | mg/Kg | | 07/11/13 10:27 | 07/11/13 14:03 | 1 |

| Surrogate | MB | | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| p-Terphenyl | 106 | | 40 - 130 | 07/11/13 10:27 | 07/11/13 14:03 | 1 |

Lab Sample ID: LCS 720-139942/2-A

Matrix: Solid

Analysis Batch: 139928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 139942

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| | | | | | | | |
| Diesel Range Organics [C10-C28] | 83.1 | 72.3 | | mg/Kg | | 87 | 50 - 150 |

| Surrogate | LCS | | Limits |
|-------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| p-Terphenyl | 109 | | 40 - 130 |

TestAmerica Pleasanton

QC Sample Results

Client: Ninyo & Moore
 Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-139942/3-A

Matrix: Solid

Analysis Batch: 139928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 139942

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics [C10-C28] | 83.1 | 77.4 | | mg/Kg | | 93 | 50 - 150 | 7 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-------------|----------------|----------------|----------|
| p-Terphenyl | 113 | | 40 - 130 |

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QC Association Summary

Client: Ninyo & Moore
 Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

GC/MS Semi VOA

Prep Batch: 139862

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 720-50816-1 | CONCRETE COMPOSITE-1 | Total/NA | Solid | 3546 | |
| 720-50816-2 | CONCRETE COMPOSITE-2 | Total/NA | Solid | 3546 | |
| LCS 720-139862/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 720-139862/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |
| MB 720-139862/1-A | Method Blank | Total/NA | Solid | 3546 | |

Analysis Batch: 139906

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| LCS 720-139862/2-A | Lab Control Sample | Total/NA | Solid | 8270C SIM | 139862 |
| LCSD 720-139862/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C SIM | 139862 |
| MB 720-139862/1-A | Method Blank | Total/NA | Solid | 8270C SIM | 139862 |

Analysis Batch: 139950

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------|-----------|--------|-----------|------------|
| 720-50816-1 | CONCRETE COMPOSITE-1 | Total/NA | Solid | 8270C SIM | 139862 |
| 720-50816-2 | CONCRETE COMPOSITE-2 | Total/NA | Solid | 8270C SIM | 139862 |

GC Semi VOA

Analysis Batch: 139928

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCS 720-139942/2-A | Lab Control Sample | Total/NA | Solid | 8015B | 139942 |
| LCSD 720-139942/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B | 139942 |
| MB 720-139942/1-A | Method Blank | Total/NA | Solid | 8015B | 139942 |

Analysis Batch: 139934

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|----------------------|-----------|--------|--------|------------|
| 720-50816-1 | CONCRETE COMPOSITE-1 | Total/NA | Solid | 8015B | 139942 |
| 720-50816-2 | CONCRETE COMPOSITE-2 | Total/NA | Solid | 8015B | 139942 |

Prep Batch: 139942

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 720-50816-1 | CONCRETE COMPOSITE-1 | Total/NA | Solid | 3546 | |
| 720-50816-2 | CONCRETE COMPOSITE-2 | Total/NA | Solid | 3546 | |
| LCS 720-139942/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| LCSD 720-139942/3-A | Lab Control Sample Dup | Total/NA | Solid | 3546 | |
| MB 720-139942/1-A | Method Blank | Total/NA | Solid | 3546 | |

Lab Chronicle

Client: Ninyo & Moore
 Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Client Sample ID: CONCRETE COMPOSITE-1

Lab Sample ID: 720-50816-1

Date Collected: 07/10/13 12:00

Matrix: Solid

Date Received: 07/10/13 18:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3546 | | | 139862 | 07/10/13 20:06 | AFM | TAL PLS |
| Total/NA | Analysis | 8270C SIM | | 2 | 139950 | 07/11/13 15:43 | MQL | TAL PLS |
| Total/NA | Prep | 3546 | | | 139942 | 07/11/13 10:27 | MRP | TAL PLS |
| Total/NA | Analysis | 8015B | | 1 | 139934 | 07/11/13 13:39 | DCH | TAL PLS |

Client Sample ID: CONCRETE COMPOSITE-2

Lab Sample ID: 720-50816-2

Date Collected: 07/10/13 13:00

Matrix: Solid

Date Received: 07/10/13 18:20

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 3546 | | | 139862 | 07/10/13 20:06 | AFM | TAL PLS |
| Total/NA | Analysis | 8270C SIM | | 2 | 139950 | 07/11/13 16:06 | MQL | TAL PLS |
| Total/NA | Prep | 3546 | | | 139942 | 07/11/13 10:27 | MRP | TAL PLS |
| Total/NA | Analysis | 8015B | | 1 | 139934 | 07/11/13 14:08 | DCH | TAL PLS |

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Ninyo & Moore
Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

Laboratory: TestAmerica Pleasanton

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

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|------------|---------------|------------|------------------|-----------------|
| California | State Program | 9 | 2496 | 01-31-14 |

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Method Summary

Client: Ninyo & Moore
Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

| Method | Method Description | Protocol | Laboratory |
|-----------|----------------------------------|----------|------------|
| 8270C SIM | PAHs by GCMS (SIM) | SW846 | TAL PLS |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL PLS |
| PCBs | General Sub Contract Method | NONE | |

Protocol References:

NONE = NONE

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

Laboratory References:

= McCampbell Analytical, Inc., 1534 Willow Pass Road, Pittsburg, CA 94565

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Ninyo & Moore
Project/Site: Western Forge & Flange

TestAmerica Job ID: 720-50816-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|----------------------|--------|----------------|----------------|
| 720-50816-1 | CONCRETE COMPOSITE-1 | Solid | 07/10/13 12:00 | 07/10/13 18:20 |
| 720-50816-2 | CONCRETE COMPOSITE-2 | Solid | 07/10/13 13:00 | 07/10/13 18:20 |

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Analytical Report

| | | |
|--|--|--------------------------|
| Test America 1220 Quarry Lane Pleasanton, CA 94566 | Client Project ID: #72008928; Western Forge & Flange | Date Sampled: 07/10/13 |
| | | Date Received: 07/11/13 |
| | Client Contact: Dimple Sharma | Date Reported: 07/11/13 |
| | Client P.O.: | Date Completed: 07/11/13 |

WorkOrder: 1307319

July 11, 2013

Dear Dimple:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#72008928; Western Forge & Flange**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

TestAmerica Pleasanton
 1220 Quarry Lane
 Pleasanton, CA 94566
 Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

1307319

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

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|--|--|--|-------------------------|--|--|-----------------------------------|----------------------------|--------------------------|----------------------------|----------------------------|
| Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: McCambell Analytical, Inc. Address: 1534 Willow Pass Road, City: Pittsburg State, Zip: CA, 94505 Phone: Email: | | Sampler: Lab PM: Sharma, Dimple E-Mail: dimple.sharma@testamericainc.com | Carrier Tracking No(s): | COC No: 720-18428-1 Page: Page 1 of 1 Job #: 720-50816-1 | | | | | | |
| Due Date Requested: 7/11/2013 TAT Requested (days): | | Analysis Requested | | Preservation Codes: A - HCL M - Hexane B - NaOH N - Non- C - Zn Acetate O - AsN + O2 D - Nitric Acid P - Na2O15 E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) | | | | | | |
| Project Name: Western Forge & Flange Site: | | Project #: 72008928 SSOW#: | | Other: | | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=oil/water, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | SUBCONTRACT/PCBs | Total Number of containers | Special Instructions/Note: |
| CONCRETE COMPOSITE-1 (720-50816-1) | | 7/10/13 | 12:00 Pacific | Solid | Solid | X | X | X | X | Same day per Angela |
| CONCRETE COMPOSITE-2 (720-50816-2) | | 7/10/13 | 13:00 Pacific | Solid | Solid | X | X | X | X | RUSH |
| ICE# <u>6.2</u> ✓ GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB PRESERVATION <u>VOAS</u> | | APPROPRIATE CONTAINERS PRESERVED IN LAB O&G METALS OTHER | | | | | | | | |
| Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Empty Kit Relinquished by: | | | | | Date: | | Time: | | Method of Shipment: | |
| Relinquished by: | | Date/Time: 7-11-13 12:05 | | Company: TAFE | | Received by: | | Date/Time: 7/11/13 12:07 | | Company: MAI |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | Company: |
| Custody Seals Intact: Δ Yes Δ No | | Custody Seal No.: | | | Cooler Temperature(s) °C and Other Remarks: | | | | | |



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

WorkOrder: 1307319

ClientCode: TAM

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

| | | | |
|---------------------------------------|--|------------------------|----------------------------------|
| Report to: | | Bill to: | Requested TAT: |
| Dimple Sharma | Email: dimple.sharma@testamericainc.com | Accounts Payable | 0 day |
| Test America | cc: | Test America | Date Received: 07/11/2013 |
| 1220 Quarry Lane | PO: | P.O. Box 2912 | Date Printed: 07/11/2013 |
| Pleasanton, CA 94566 | ProjectNo: #72008928; Western Forge & Flange | North Canton, OH 44720 | |
| (925) 484-1919 FAX: (925) 600-3002 | | SEND HARDCOPY | |

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|-------------------------------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1307319-001 | Concrete Composite -1 (720-50816-1) | Solid | 7/10/2013 12:00 | <input type="checkbox"/> | A | | | | | | | | | | | | |
| 1307319-002 | Concrete Composite -2 (720-50816-2) | Solid | 7/10/2013 13:00 | <input type="checkbox"/> | A | | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|-----------------|----|--|---|--|---|--|----|--|
| 1 | 8082A_PCB_Solid | 2 | | 3 | | 4 | | 5 | |
| 6 | | 7 | | 8 | | 9 | | 10 | |
| 11 | | 12 | | | | | | | |

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Test America** Date and Time Received: **7/11/2013 12:32:54 PM**
 Project Name: **#72008928; Western Forge & Flange** LogIn Reviewed by: **Melissa Valles**
 WorkOrder N°: **1307319** Matrix: Solid Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 6.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

| | | |
|--|---|--------------------------|
| Test America 1220 Quarry Lane Pleasanton, CA 94566 | Client Project ID: #72008928; Western Forge & Flange | Date Sampled: 07/10/13 |
| | Client Contact: Dimple Sharma | Date Received: 07/11/13 |
| | Client P.O.: | Date Extracted: 07/11/13 |
| | | Date Analyzed: 07/11/13 |

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B

Analytical Method: SW8082

Work Order: 1307319

| | | | | | | |
|-----------|---|---|--|--|------------------------------|--|
| Lab ID | 1307319-001A | 1307319-002A | | | Reporting Limit for DF =1 | |
| Client ID | Concrete Composite - 1 (720-50816-1) | Concrete Composite - 2 (720-50816-2) | | | | |
| Matrix | S | S | | | | |
| DF | 1 | 1 | | | | |

| Compound | Concentration | | | | mg/kg | ug/L |
|-------------|---------------|----|----|--|-------|------|
| | Aroclor1016 | ND | ND | | | 0.05 |
| Aroclor1221 | ND | ND | | | 0.05 | NA |
| Aroclor1232 | ND | ND | | | 0.05 | NA |
| Aroclor1242 | ND | ND | | | 0.05 | NA |
| Aroclor1248 | ND | ND | | | 0.05 | NA |
| Aroclor1254 | ND | ND | | | 0.05 | NA |
| Aroclor1260 | ND | ND | | | 0.05 | NA |
| PCBs, total | ND | ND | | | 0.05 | NA |

Surrogate Recoveries (%)

| | | | | |
|------|-----|-----|--|--|
| %SS: | 130 | 128 | | |
|------|-----|-----|--|--|

| | | | | |
|----------|----|----|--|--|
| Comments | h4 | h4 | | |
|----------|----|----|--|--|

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

h4) sulfuric acid permanganate (EPA 3665) cleanup



QC SUMMARY REPORT FOR SW8082

W.O. Sample Matrix: Solid

QC Matrix: Soil

BatchID: 79287

WorkOrder: 1307319

| EPA Method: SW8082 | | Extraction: SW3550B | | | | | Spiked Sample ID: N/A | | | |
|--|--------|---------------------|--------|--------|--------|--------|-------------------------|-----|----------|--|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | Acceptance Criteria (%) | | | |
| | mg/kg | mg/kg | % Rec. | % Rec. | % RPD | % Rec. | MS / MSD | RPD | LCS | |
| Aroclor1260 | N/A | 0.15 | N/A | N/A | N/A | 110 | N/A | N/A | 70 - 130 | |
| %SS: | N/A | 0.050 | N/A | N/A | N/A | 130 | N/A | N/A | 70 - 130 | |
| All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE | | | | | | | | | | |

BATCH 79287 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|------------------|----------------|------------------|
| 1307319-001A | 07/10/13 12:00 PM | 07/11/13 | 07/11/13 2:32 PM | 1307319-002A | 07/10/13 1:00 PM | 07/11/13 | 07/11/13 4:28 PM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer

Chain of Custody Record

720-50816

147097

Regulatory Program: DW NPDES RCRA Other:

| | | | | | | | | | | | | | |
|--|--|---|-------------|------------------------------|---|------------|---|---------------------------|---|------------------------|--|--|--|
| Client Contact Cem Atabek 1956 Webster Street Oakland, CA 94612 (510) 343-3000 Phone (510) 343-3001 FAX | | Project Manager: Cem Atabek Tel/Fax: 510-343-3000/510-343-3001 | | | Site Contact: Melissa Terry Lab Contact: Dimple Sharma | | | Date: 7/10/13 Carrier: | | | COC No. 1 1 of 1 COCs | | |
| Project Name: Western Forge & Flange Site: 540 Cleveland Avenue, Albany P O # 401823001 | | Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input checked="" type="checkbox"/> 1 day | | | PAHs (8270 SIM) TPHid & TPHmo (8015M) PCBs (8082) | | | | | | Sampler: Melissa Terry For Lab Use Only: Walk-in Client Lab Sampling: Job / SDG No.. | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | | | | Sample Specific Notes. | | | |
| Concrete Composite - 1 | | 7/10/2013 | 12:00 | C | Solid | 1 | X | X | X | | | | |
| Concrete Composite - 2 | | 7/10/2013 | 13:00 | C | Solid | 1 | X | X | X | | | | |

Page 22 of 23



720-50816 Chain of Custody

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments: 5.1°C

| | | | | | |
|--|-----------------------------------|--------------------------------|---------------------------------|----------------------|--------------------------------|
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | Custody Seal No.: | Cooler Temp. (°C): | Obs'd: | Corr'd: | Therm ID No.: |
| Relinquished by: <i>M. Terry</i> | Company: <i>Ninjo & Moore</i> | Date/Time: <i>7/10/13 1650</i> | Received by: <i>[Signature]</i> | Company: <i>TASF</i> | Date/Time: <i>7-10-13 1650</i> |
| Relinquished by: <i>[Signature]</i> | Company: <i>TASF</i> | Date/Time: <i>7/10/13 1820</i> | Received by: <i>[Signature]</i> | Company: <i>TAP</i> | Date/Time: <i>7/10/13 1820</i> |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |



Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-50816-1

Login Number: 50816

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| 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. | 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 <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

