0900 - Arrive at the polishing pond to begin sediment sampling.
0930 - Discuss H & S & sampling of banks. Due to rip rap, polishing pond on bank samples will have to be taken where sediment is available. See drawing pg 32.
0945 - M. Warner & K. Jackson collect Bank aliquot A.
1000 - Photo of SED-19A
1002 - Matt & Kyle push SED-19B
1020 - Photo SED-19B
1025 - Matt & Kyle collect SED-19C & deliver
1035 - Photo of SED-19C
1040 - NOTE - Bank aliquot ABC & D are all soil w/no sediment present. Will call these sediment for VOC & to keep consistent however these are soils.
1045 - Matt & Kyle collect laboratory samples SED-19 total parameter dem collected) VOC's from Aliquot D.
Collect for VOC's, METAL... as spelled out in Work Plan.
1100 - Decom sampling equipment.

NOTE: Weather conditions
- sunny & 55°
- extremely windy w/ steady 20-20 mph wind from N.
- doe no extreme wind gusts may not do pond WQH sampling today for H&I. Adds complications.

11:50 - Calibrate PID
1130 - PID Readings
SED-19 A = 0.2 ppm
B = 0.2 ppm
C = 0.2 ppm
D = 1.5 ppm
1135 - Break for lunch
1215 - return from lunch and set up @ pond S of polishing pond. - Aeration Pond #3
1230 - Matt & Kyle collect sample @ SED-21A aliquot location. See diagram
19 34
1240 - Photo SED-21A
1245 - Kyle & Matt collect sample aliquot B
1300 - Photo of Matt & Kyle @ locality on SED-21B
1300 - Matt & Kyle collect aliquot C
1320 - Photo SED-21B
1320 - Photo Matt & Kyle sampling @ SED-21B

Polishing Pond

O = Bank Sample Aliquot location
Aeration Pond #3

A

B

C

D

E

Rip Rap Wall

Rip Rap (N bank) and concrete
(5/5, Bank) One aliquot (D) was collected near outlet.

1330 - Photos SED-21 D
1330 - Collect laboratory samples from SED-21. VOC grab sample collected @ aliquot D.

Note: @ SED-21 (Aeration Pond #3) Bank sample locations the locations were taken from the E N W banks w/ A&D taken from W Bank of B & C taken from E bank. This was done because N & S banks are comprised of Rip Rap (N bank) and concrete (5/5, Bank). One aliquot (D) was collected near outlet.

1340 - Matt locates all sample aliquot locations completed today with Trinkle.

1345 - Decon

---

11/15/07
<table>
<thead>
<tr>
<th>Time</th>
<th>Notes</th>
</tr>
</thead>
</table>
| 1400  | P ID  SED-21  
A - 0.5 ppm  
B - 0  
C - 0  
D - 0  |
| 1405  | Move to location SED-23A  
Aeration Pond #2 bank  
A1-2.05. See diagram pg 26.  
1405 - Photo of Matt x Kyle  
collecting SED-23A Aliquot  
1420 - Photo of SED-23A |
| 1430  | Photo of Matt x Kyle  
@ SED-23C location.  
1433 - Photo of SED-23B |
| 1445  | Photo of SED-23C  
12 -18"  
1448 - Photo of Matt x Kyle  
collecting sample @ SED-23D aliquot location.  
Note: Poor recovery from most of the treatment pond bank aliquot locations due to existing grade. Also because material is soft and compresses in the sample sleeve. |
| 1450  | Matt x Kyle deliver  
Aliquot B then proceed  
Aliquot C. |

**Note:** All bank samples collected today appear to be soil only, no thickness of sediment at these bank locations in Polish, Aeration #7 or Aeration #2.

1425 - Matt x Kyle deliver  
Aliquot B then proceed  
Aliquot C.
Aeration Pond #2

J  B  C  D

Blower Pipes

Outlet

OUTLET

NOTE: (D) pond bottom altitude was attempted closer to SE corner but due to lack of sufficient sediment, location was moved to NW.

1500 - PID Readings SED-23A = 8 ppm
          B = 0 ppm

1500 - Matt & Kyle deliver D.

1500 - Matt & Kyle collect laboratory samples at SED-23 (Aeration Pond #2).

1515 - Decom

1530 - PID Readings
          SED-23C = 8 ppm
          23D = 8 ppm

1540 - Clean up & head to office

1800 - Leave site

11/5/07
0700 - Arrive @ site
Weather observations
- sunny, dry (40°F)
- slight breeze
0705 - Office work
0815 - Matt Kyle arrive @ site.
0830 - Matt & Kyle mob to ponds to get boat ready.
0845 - Get set up @ Polishing pond, gauge pond depth
0900 - Get samplers ready.
0905 - Launch boat & head to PBSED-18B aliquot
0910 - Photo of Matt & Kyle collecting PBSED-18A aliquot from pond bottom (Polishing pond)
0920 - After pushing 2x @ PBSED-18A, very little recovery will collect what was collected for the composite sample & then proceed to Aliquot 5
0925 - @ PBSED-18A had following:
- H2O 67"
- Push 3.6" 10°
TD = 77°
0930 - Photo of sampling @ PBSED-18B
Note: For composites collected from Polish Pond Aliquots, the samples were logged then the sediment was placed into a bowl for compositing of aliquots & any soil was discarded. Minor amounts of soil were likely included in sediment lab samples as it is very difficult to remove 100% of identified soil.
0950 - Matt & Kyle deliver PBSED-18B for logging then move to PBSED-18C
PBSED-18B observations
- H2O 79"
- Push 5"
TD = 84° 11/6/02
0955 - Matt & Kyle set up @ PBSED-18C
0956 - Photo of sampling @ PBSED-18C
0958 - Photo soil core PBSED-18D
1010 - Matt & Kyle deliver PBSED-18C for logging
1013 - Photo sed core PBSED-18C
1015 - PBSED-18C observ.

H2O 8 ft
push 4 ft
TD 85

1015 - Launch boat for collection of PBSED-18D
1020 - Photo sampling @ PBSED-18D
1025 - Calibrate PID
1026 - PID measure mouth
PBSED-18A = 0.2 ppm
PBSED-18B = 0.2

1050 - Matt & Kyle make multiple pushes @ PBSED-18D to get ample sample collection for analytical requires
COS - Photo of PBSED-18
Composite before collecting of laboratory samples
1055 - PBSED-18D observations

H2O 74 ft
Push 4 ft
TD = 78 ft

1100 - Photo of SED core PBSED-18D. Note:
core was pushed 2X
1105 - Photo of clay rolled out PBSED-18D from approx 76 - 78".
1100 - Collect laboratory samples @ SED-18
1145 - L. J. R.
1145 - Decon.
1330 - Break down
1145 - Lunch off site
1245 - Return from lunch & set up @ Aeration Pond #3
1300 - PID readings
  PBSD-18C = 4.6 ppm
  PBSD-18D = 0.0 ppm
1310 - Launch boat & proceed to PBSD-20A
1315 - Photo of Matt & Kyle @ PBSD-20A aliquot loc.
1335 - Matt & Kyle deliver PBSD-20A for description
1420 = 13' > PBSD-20A
Psh = 12''
1345 - Photo sed core PBSD-20A
1350 - Matt / Kyle set up @ PBSD-20B
1355 - Photo sampling @ PBSD-20B

1410 - Matt / Kyle deliver PBSD-20B for logging
1415 - Matt & Kyle proceed to PBSD-20C aliquot loc.
1420 - Photo PBSD-20B sed core
1420 - Photo sampling @ PBSD-20C for logging
1442 - Photos of sed core PBSD-20C
1452 - Photo sampling @ PBSD-20D
1458 - PID readings
  PBSD-20A = 5.3 ppm
  PBSD-20B = 1.1 ppm
1515 - Delivery of PBSD-20D for logging
1625 - Photo of PBSD-20D sed core then laboratory sample collect
1630 - Collect laboratory samples PBSD-20 then decom
Location: El Dorado  
Date: 11/7/07

Project / Client: El Paso

D. Mick, M. Warner, K. Jeter

0830 - Arrive at site
0840 - Set up @ Aeration #2
0845 - H+S tailgate meeting
  - boat safety
  - Personal Protection (PPE)
  - Sample handling
0900 - Prep equipment
0905 - Maneuver boat into position @ PB-SED-22A aliquot loc.
0910 - Photo of sampling @ PB-SED-22A aliquot
0915 - Weather Observations
  - Sunny & Cold @ 40°F
  - Windy w/ 15-25 mph from SE
0920 - Delivery of PB-SED-22A for logging
0923 - Photo of PB-SED-22A aliquot
0930 - Photo sampling @ PB-SED-22B
0940 - Delivery of PB-SED-22B for logging
0945 - Photo of PB-SED-22B SED core

1600 - PID Readings
PB-SED-20C = 6.5 ppm
1625 - James Tucker
v/ Magellen he will call on Wed. so he can meet us on site to locate lines
He would like site map showing our locations.
1630 - PID Readings
PB-SED-20D = 6.9 ppm
1630 - Nath Kyle leave site
1500 - Inspect S.T. F area
4 suspect berm s, photo of dump area & soil-like material
1520 - Leave site for day

1/6/10 - D. Mick

11/7/07 -
**0945 - Mkt + Kyle set up @ PB-SED-22C**

**0950 - Photo sampling @ PB-SED-22C**

**0954 - Photos sampling @ PB-SED-22C**

**1000 - Delivery of PB-SED-22C for logging**

**1005 - Photo PB-SED-22C sed core**

Note: poor recovery & most of sed core was used (previous to ph-11)

**1013 - Photo of sampling @ PB-SED-22D**

Note: difficulty stabilizing boat due to strong gusty winds 30 mph. Use anchor & pole stabilizers to keep boat in place. PB-SED-22D was moved further to center of pond due to lack of sed. in SE corner near inlet/outlet.

**1030 - Delivery of PB-SED-22D sed core for logging**

**1040 - Collect laboratory samples from PB-SED-22**

| Note: poor recovery & most of sed core was used (previous to ph-11) for collection of laboratory samples |
| NOTE: For VOC laboratory samples collected from PB-SED-22D, there was very little sediment present, it was fluid & did not remain in sample tube, therefore, much of the laboratory sample collected for VOC's was made up of the clay soil & not strictly sediment material. The composite sample collected from all points A, B, C & D had more sediment recovered & not same issue w/ these laboratory samples. |

**1116 PID Readings**

- SED-22A: 1.4 ppm
- SED-22B: 1.5 ppm
- SED-22C: 3.2 ppm
- SED-220: 1.5 ppm
11:30 - Break for Lunch

Note 11:20 - 11:35 D, Mick accompanied Gary Yackle of Magellan Pipeline Co. to S.T.F. to look @ their lines & to clear them. Mr. Yackle advised, after looking @ sampling locations on a map, that all locations N. of refinery road are clear. Their line is N & W of site on other side of fence. In STF Mr. Yackle advised all their lines are abandoned & have nitrogen purge & if we hit, will not cause ill effects. He said the main line he would not want us to hit is line that comes out of their sub station & goes west. This line is marked w/ permanent markers.

Mr. Yackle stated that he will talk to Bill Hocker as Bill normally does locates in this area. Bill & or Mr. Yackle will be at site again before we start drilling on 11/6/07. He said locations & former tanks would be ok if within footprint of old tank. Most of these lines approach the former tanks & come out of ground & are blinded off. Their lines are pretty shallow in area 52' TD. KANE lines also present & abandoned & are not blinded off.

12:30 - Return to pits & set up @ Accretion Pond #1

Note: This pond has clarifier unit on E. side & cement wells on N. & S. w/ grass/rock bank on E. side @ abut 65' of shore line. Adjacent sampling to collect 2 bank gasses only @ 4 & 8 dock.
1245 - Photo sampling @ SED-25A aliquots location

1253 - Photo sampling @ SED-25A, H_2O = 8".

Note: @ location A & B refusal was firm & talc like rock or concrete.

1306 - Photo of SED-25A

SED core

1310 - Collect laboratory samples from SED-25A for VOC's,

25A + B composites for metals & semi-volatiles

1330 - Decom of prep for

Bank sampling at the

equil. basin

1352 - Photo of SED Core SED-27A

& also sampling @ SED-27C

1400 - Delivery of SED-27C

H_2O = 8"

PWH = 12"

TD = 20"

1415 - Photo sampling @ SED-27D

- Z

11/7/07
1430 - PID Readings
   SED-25A = 0.2 ppm
   SED-25B = 0.5 ppm
1430 - Post sampling @
   SED-25 + DEM SED-27B

1435 - Photo SED core SED-27B
1445 - Collect laboratory samples from SED-27B
   Note: VOC's from Aliglucor B

1515 - PID Readings
   SED-27A = 50.0 ppm
   27B = 1.8 ppm
   27C = 4.7 ppm
   27D = 8.6 ppm

1520 - Decon & break down

1600 - Site visitor Greg Holst
   Said he used to be main sup.
   Know Ray
   Wanted to (talk with old main)
   Shop where he used to work
   Escort him in for 5 minutes
   Cook

1605 - Office work
1605 - Matt & Kyle to Williams
1610 - Jon Mills @ Generac
   Asked if we had done utility clearance. Told him we did so it will be good
to drill next week.

1730 - Secure site & leave for day
0735 - Arrive at site
0800 - Matt/Kyle arrive
0830 - After loading up X
brief meeting, Matt/Kyle
M6 to ponds
0900 - Photo sampling PB-SED-24A
Aeration Pond #1
0916 - Delivery of PB-SED-24A
sed core for logging
obser @ PB-SED-24A
H2O 152"
Push 6"
TD 158"
0924 - Photo of PB-SED-24A
sed core
0924 - Matt Kyle proceed
to PB-SED-24D
0930 - Photo sampling PB-SED-24D
0935 - 60 to meet James Tucker
w/Magellan
0950 - James Tucker / Magellan
went showed D. Mick location
of their line in the S.T.F.
Their pipeline starts @
NW corner of the old
unloading rack & proceeds
to the N/SW 4 is marked
w/perm. markers. Mr. Tucker
said that they do not
have anything on N side
of refinery road so all
clear there.
0955 - Back to ponds
1005 - Matt Kyle sampling
@ PB-SED-24C (photo)
1010 - Photo PB-SED-24D
sed core
1020 - Calibrate PID
1025 - Meet w/ Allen & USA
1030 - Photo sampling PB-SED-24B
1035 - PID readings
PB-SED-24A - 1.5 ppm
24D - 2.18 ppm

2/18/07
1040 - Photo PB-SED-24C
Sed Core
Observations @ PB-SED-24D

$H_2O = 132''$
$Push = 24''$
$TD = 156$

Observations @ PB-SED-24C

$H_2O = 132''$
$Push = 24''$
$TD = 156''$

Note: Soil is very soft & compressing in liner. When sampler is pushed 24" the liner (re liner) is about 75% full. Thus 2nd push is collected in 1st liner & logged accordingly. Recovery # represents how much recovered in the liner regardless of liner length.

1100 - Delivery of PB-SED-24B Sed Core for logging
Observations @ PB-SED-24B

$H_2O = 156''$
$Push = 15.5 - 6''$
$TD = 162$

1130 - Photo PB-SED-24B Sed Core

1105 - Collect laboratory samples @ PB-SED-24

1115 - Decon

1140 - Launch boat in equalization basin pond

1150 - PID reading PM
PB-SED-24B - 0.5
PB-SED-24C - 0.5

1155 - Lunch
24 C - 6.5

1220 - Status update - call w/ Bill pickers

1240 - Back to ponds

11/8/07
1305 - Prep for PB-SED-26A
1315 - Photo sampling PB-SED-26A
1335 - Delivery PB-SED-26A
sed core for logging
observations @ PB-SED-26A

August location

H₂O 84"
PUSH 54"

TD 138

Note: usd 4' liner & had 58% recovery in liner due to
Sample compression

1352 - Photo sampling @ PB-SED-
26C

1405 - Delivery of PB-SED-26C
for logging.

PB-SED-26C observations

H₂O 60"
PUSH 30"

TD 90"

1410 - Photo PBSED-26C
samplng

1410 - Photo PBSED-26C
sed core

1420 - Delivery of PBSED-
26D

observations @
PB-SED-26D

H₂O 66"
PUSH 30"

TD 94"

1429 - Photo sampling @ PB-SED-
26B.

1435 - PID readings
PB-SED-26A = 28.0
26C = 22.0

1500 - Delivery of PB-SED-26B
sed core for logging.

1500 - Collect laboratory samples from PB-SED-26
with VOCs at levels from August 20.

8/18/87
1510 - Note for collection of upper 12" + lower 12" of sample for PB-SED-26, the 12" interval was more likely more than 12" because the sediment compressed in the liner.

0950 - Call Maggie Wieser @ Echo - she will do site visit on Tuesday 11/3/07. Will call before arrival and sheet for mid-morning.

1015 - Site arrival. Kyle already on site doing boat maintenance. General equipment management.


They requested access to inspect the muskrat hide in STF # 1 N of MPA. Let them into STF.

1035 - Arrive @ SE Pond.
1044 - Photo sampling @ PB-SED-26A
1058 - Deliver 4" core for logging.
1058 - Observations @ PB-SED-28A
H2O = 66
Push 12".
7 D = 78".

1100 - Launch boat for PB-SED-28B
1105 - Photo + sampling @ PB-SED-28B
1110 - Photo + sampling @
PB-SED-28C
1120 - Delivery of PB-SED-28B
and PB-SED-28C sed cores
for logging.
1130 - Launch boat for sampling @
PB-SED-28D.
1135 - Photo PB-SED-28B core
1140 - Photo + sampling @
PB-SED-28D.

1150 - Collect laboratory samples
from PB-SED-28A core, TCLP from 28D
aliquot.

1210 - Decal & calibrate PID
1220 - PID Readings PPM
PB-SED-28A = 7.3
PB-SED-28B = 24.2
PB-SED-28C = 25.6
PB-SED-28D = 18.5

1225 - Lunch break
1330 - Back to site, discussions.
1400 - Back to SE Pond.
1405 - Begin sample collection
@ SED-29A aliquot 10 c.
NOTE: Bark @ 29A is
very hard so had to
push "jib" into 29A
area several times. 6-8 pushes.
1420 - Sample @ SED-29B
1423 - Photo SED-29A
sed core
1425 - Photo Kyle sampling
@ SED-29B
1426 - Kyle & Matt proceed
to SED-27C
1430 - Photo sampling @ SED-29C
1443 - Photo sampling @ SED-29D
1445 - Phone SED-29 C sed cut
1445 - Jerold Nordmeyer turns on the aeration pond blowers
1500 - Photo SED-29D core
1500 - Collect laboratory samples SED-29 w/ voch from 29 D airlift.
1520 - Decan
1540 - PID readings [EM
SED-29A — 0
29B — 0
29C — 0
29D — 0

1650 - Leave site for day
0715. Site arrival D. Mick
0800 - Matt & Kyle arrive
0830 - Set up @ Primary
0835 - H & S Tailgate Meeting
- Overhead electric awareness
- Boat safety
- PPE
0845 - Launch boat
0855 - Photo sampling @ PB-SED-39A
0900 - Meet w/ John A (Arc of KANECH (Now "New Star");
to clear old KANECH lines
in STF. Has some old
flags still in place & will
also come out Monday &
place some additional flags.
0900 - 0945 - Matt & Kyle collect
PB-SED-39 A, B, C & leave
cores at logging table.
0945 - D. Mick return to
Primary Pond
0950 - Observations during sampling
PB-SED-39A  PB-SED-39B
H20-60"  H20-66"
P-34-40"
TD: 66"  TD: 70"
PB-SED-39C  PB-SED-39D
150-78"  H20-78"
P-34-40"
TD: 70"  TD: 82"
1000 - Photo PB-SED-39 B
1020 - Collect laboratory samples
from PB-SED-39 A, VOC's from
A1, 2.
1025 - Photo PB-SED-39C sed
Core
1040 - Photo PB-SED-39D sed core
1045 - DC on equipmnt
1055 - P10 Readings, PM
PB-SED-39 A = 0.3
PB-SED-39 B = 0.2
PB-SED-39 C = 0.5
PB-SED-39 D = 0.7
11:00 - Back to main office
12:00 - Leave site for day
1042 - Photo SED-380 core
1050 - Decon
1115 - Lunch
1145 - Bill Herbert w/ Magellan site to clean Magellan lines. TW-03 well & all soil being locations are clear. TW-14 area clear. TW-07 ok except BH-12 may be close to old line. Be cautious in this area. TW-02 area clear.

At TW-04 this location should be moved approx 20' to the south. TW-09 area clear. TW-06 - move 60' to N because Magellan line is located S of TW-06 in uns CW. TW-01 move 10' South to avoid Magellan line. All other Magellan lines in SW & NE are clear.

1300 - Return to ponds / begin bank sampling @ the West Oxidation Pond. SED-374 SED-375
1517 - Photo sampling @ SED-376
1520 - Candace Fox @ TEST America called about terra core samples. Said that we must get samples to the laboratory within 48 hrs of collection so they can freeze them. Some of the samples that had been delivered were outside 48 hrs. She was not aware of the 48 hr requirement. Going forward all samples (terra core) must be received within 48 hrs. She will send email to Bill P.

To Betty regarding the make.
1330 - GeoCore onsite.
1400 - Hits w/ GeoCore got then oriented show them Decr yard, unload...
1405 - Back to West Oxidation Pond to log samples

Note: Matt & Kyle collected laboratory samples from SED-37 @ 1345, while D. Nick was meeting w/drillers. Volatiles from SED-38

1408 - Photo SED-37A sed core
1415 - Photo SED-37C sed core
1420 - Calibrate PID
1425 - PID readings

SED - 38A 0.3
38B 0.9
38C 0.8
38D 25.0

1430 - Chris Fitzgerald - discussed Terra cores holding times also KD discussions.
1445 - Photo SED-37B sed core
1445 - Matt & Kyle attempt sample @ SED-35A but had refusal - attempted at several loc. in area

1500 - Photo sampling @ SED-35B
1510 - Collect laboratory samples from SED-35B (B only)
1520 - Decon
1550 - PID Readings

SED - 37A 0.5
37B 0.5
37C 0.5
SED - 35B 0.3

NOTE: Background readings @ time of above PID was 0.3 PPM

1600 - Back samples 4 office

1615 - Leave site
0830 - Arrive @ SD & meet 100d trucks
0845 - Mob to STF to deliver supplies to Roy Morlan. Discuss shallow retrievals, well instal options
0910 - Mob to ponds, SW oxidation pond
1000 - D. Mick go meet w/ KDHE Maggie Wiener
1000 - Collected sample SED-33B
  Depth of water: 6” Push: 10”

**NOTE:** Refusal @ SED-33A rock.

1030 - D. Mick return to West Ox Pond

1040 - Matt & Kyle collect Alig. SED-31B

1056 - Photo SED-33B

1100 - Collect laboratory VOC samples from SED-31B

1115 - Photo SED-31B, sed core

1120 - Dine

1130 - Locate bank aliquot loc. w/ Magellan

1150 - Matt & Kyle go to lunch

1215 - Calibration of PID

**PID Readings**

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<tr>
<td>SED-33B</td>
<td>0.3</td>
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1300 - Lunch w/ Roy Morlan & Maggie Wiener @ KDHE

1340 - Back to ponds - launch boat for location PB-SED-30A

1350 - Photo sampling @ PB-SED-30A

1355 - Delivery sample aliquots PB-SED-30A

1405 - Photo sed core PB-SED-30A

**Photo sampling @ PB-SED-30C**

1420 - Photo sed core PB-SED-30C

1426 - Photo sampling @ PB-SED-30B

1447 - Photo sampling @ PB-SED-30D

1500 - PID Readings

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<tr>
<td>30B</td>
<td>57.4</td>
</tr>
<tr>
<td>30C</td>
<td>85.0</td>
</tr>
</tbody>
</table>
1502 - Matt & Kyle return from Align with D location.
1505 - Photo of composite

NOTE: Sample collection time noted at 1500.

For duplicate 1530 hrs.

1520 - Roy picked up MADEP jars.
1550 - PID reading: PB-SED-30 D - FPM  22.5

1600 - Decap

1630 - Pack samples

1730 - Leave for day

Θ = Bank Sample Locations
● = Pond Bottom Locations
Location: El Dorado

Project / Client: El Paso

D. Miller, M. Warner, K. Jackson
R. Moreau

0731: Arrive @ 5:40
0940: Visit drill site and Roy Moreau. Photo #
Drilling @ 7W-02. Discuss rock drilling w/ Dave Geocore drillers. Discuss well screen placement of Roy & Bill Dickens (phone conv.). Bill will call Jean Underwood @ KBDC for divison on well screen placement as it appears water is somewhat contained in Sw areas & the transmiss. zone is lower than pot. surface. Bill will call later w/ clarif.

1000: Inspect creek near 0W-12.
Also look @ placement of deliv. wells near fence line. 0W-12 measured @ 49' W of fence line.
Photos taken of proposed deliv. wells

1045: Arrive @ West Oxidation pond to continue sampling. Meet Kyle prep for sampling.

1056: Photo sampling @ PB-SED-32A

1118: Photo sampling @ PB-SED-32B

1126: Photo SED Core PB-SED-32A

Note: At location PB-SED-32A, did not see clay @ base of sample. Map indicated he had "definite" refusal @ 90°. May have lost clay out of shoe.

1134: Photo sampling @ PB-SED-32C

1148: Photo Sed core PB-SED-32B

1150: Photo sampling @ PB-SED-32D

1200: Collect laboratory samples from PB-SED-32 w/ Van's collected from Delight
1210 - Photo sed core PB SED 32 C
1230 - Decoy equip.
1232 - Mo PB SED 32 D core
1240 - Matt & Kyle go to lunch
1250 - Call from Candace Fox
@ TEST America. Sampler arriving in good shape.
no breakage. Keep MADE/P coming to Buffalo. TEST
is closed for Thanksgiving. Expect results beginning
11/19/07.
1255 - Calibrate PID
1258 - PID readings [PM]
SED 32 A 444.0 820
32 B 444.0
32 C 186.0
32 D 78.3
1345 - Back to Pond
1350 - Call Maggie Wieser @ Kohe re: well screen
discussed screen interval
@ Wells in STE & on general. Talk to Maggie

that we are using rock bit on occasion & not able
to collect split spoons but
will do PID & sample desc.
from augers & it grossly
contaminated (22000 ppm) will
collect laboratory sample.
Also, will have to use 15'
of screen on some wells because
we have “contaminated” water &
transmission zone is @ 15-20'
but water is rising to 5'
or 5’. For most wells we will
use 15’ screen to screen
potent. Water table across
screen. Some have been V
will be screened in trans
mission zone only so will
may be above top of screen
at the well. Case Maggie bro.
progress update & discussed
next week geop. V LNAH
decription plan. Maggie was
OK with our above
1405 - Photo sampling @ PB-SED-34D
1415 - Sample collection PB-SED
34 VO2's, MAD2, TCLP
from 34D aliquot.
1440 - Photo sampling @ PB-SED-34C
1454 - Photo sed core PB-SED-34C
1500 - Photo sampling @ PB-SED-34A
1508 - PID reading ppm
PB-SED-34-D: 50.8
1510 - Photo sampling @ PB-SED-34B
1515 - Collect laboratory samples
@ PB-SED-34 (Composition)
1518 - Photo PB-SED-34A sed core
1531 - Photo PB-SED-34B sed core
1531 - Decon
1540 - PH 4.66 @ PB-SED-36A
1545 - Photo @ PB-SED-36A
1546 - PID @ PB-SED-34 C: 6.5 ppm
1559 - Photo sampling @ PB-SED-36B
1608 - Photo PB-SED-36A core
1623 - Photo sampling @ PB-SED-36D

1626 - Photo PB-SED-36B core
1638 - PID readings
PB-SED-34A = 5.0
34B: 23.8
1645 - Photo PB-SED-36C core

NOTE: 1640 Sample collected
for laboratory analysis from
PB-SED-36 v1 VO2's
from 36-D aliquot.
1700 - Decon
1730 - PID readings
PB-SED-36A: 86.0
36 B: 87.7
36 C: 24.9
36 D: 75.5

7:00 - Leave site

11/19/02
0840 - Arrive @ site / office

0900 - Call KDIT, Maggie Wiser
Re: Background locations. Told Maggie some of our background locations N. of refinery road had to be moved because original locations were off site. Told Maggie new locations will be in same soil series & will lie N. & parallel to refinery road. She approved this change, gave her update of last week, told her we would shut down for holidays on Wednesday.

0950 - BGS onsite, Doug Freund & Brian called. H4S meeting w/ BGS

1015 - Meet @ OW-12 to review all BGS delineation wells w/ BGS
BGS OK H4S with well boundaries

1020 - Setup @ Location TW-18
1028 - Open BGS sampling @ TW-18 w/ Geo-probe.
1030 - Collect sample TW-18-0.2
1045 - BGS Begins using augers @ TW-18

1107 - Photos of TW-18 0.7-13'

1130 - BGS sets well TW-78
Screen @ 14.8' → 6.8' (8 screen)
Sand to 5.8'
Back to surface

1140 - PID Readings

Note: PID calibrated @ begin of day.

TW-18-0.2' 0
-4.6' 0
-6.8' 0
-8.10' 0
-10.12' 0
-12.13' 0
1310 - Break for lunch
1310 - BGS return from lunch
1330 - Set up Y begin drilling @ TW-72. NOTE: BGS brought enough drill augers but they were able to continue w/clean augers w/out having to dean.
1415 - BGS augering @ TW-72
NOTE: Visible screen in the 5-1 (fractured limestone) @ 12.5 - 13 BGS. TD w/HSA = 14.25'

1430 - PID readings

1515 - TW-73 soil samples collected for laboratory analysis.
1600 - BGS complete well TW-73
1610 - PID readings

TW-72 - 0-2'  0
2-4'  0
4-6'  0
6-8'  0
8-10’  0
10-12.5  0
12.5-15  0

1615 - BGS done w/ TW-73
break down to decom
1630 - back to field office to pack samples & prep for sample shipment.
1700 - Matt, Roy, Brad pack samples
1800 - Leave site for day

11/17/02
0645 - Site arrival
0700 - Recon SB-01 area
0700 - Begin minor repair & proceed to STF
0700 - Roy arrive & proceed to STF
0800 - NYS tailgate meeting w/ BGS
0815 - Set up @ SB-01
0830 - Begin profiling @ SB-01
0832 - Calibrate PID
0835 - Photo sampling SB-01
0840 - Collect SB-01 laboratory sample
0900 - BGS moves to BH-061
0915 - BGS set up on BH-059
0920 - PID readings ppm
   SB-01 0.2 0.5
   SB-01 2.4 91.3
   4.6 445
   6.8 110
   8.10 334
0930 - BGS sets up on BH-60
0931 - Joe Green calls RE: call up in STF
0935 - Let Joe Green into STF to look for his cow
0955 - BGS sa-1x @ BH-060
0958 - photo BH-060
1005 - BGS moves to SB-03
1015 - PID reading:
   BH-59 0.2 0.3
   BH-60 0.2 0.5
   BH-61 0.2 0.2
1030 - Call from Date B. regarding CME-9172
1045 - Enterprise RE: need to phone them about truck rental
(316) 689-0010
1100 - PID's ppm
   SB-03 0.2 2.5
   2.4 4.3
   4.6 13H
   6.8 4.7
   8.10 11.2
   10.12 318

---

D. Mike M. Werner
11/20/02
1115 - B65 collect BH-06C
1120 - B65 move to BH-064
1130 - B65 collect BH-064
NOTE: PID background steady @ 0.5 ppm all morning
1140 - PID readings ppm
BH-65 0.2' = 22.9
BH-66 0.2' = 178

1200 - Lunch
1300 - Back @ BH Locations
1315 - B65 sets of 4 samples @ BH-062
1320 - PID BH-64 0.2' = 0.3 ppm
1320 - B65 Deliver BH-62 core
1335 - Photos B65 sampling @ BH-063 also photos of SB FW-03 location
1340 - B65 had to push BH-063 2x because so soft & had little recovery w/1st push.
1341 - B65 deliver BH-063 core
1345 - B65 decon this mine at BH-067

1400 - Meet w/ Don Miller
1420 - B65 samples @ SB-05
1500 - PID Readings ppm
BH-062 0.2' 0.3
BH-063 0.2' 2.6
BH-067 0.2' 1.7
SB-05 0.2' 0.4

1630 - B65 drill core for samples.
1630 - Measure (Gauge) well 11

TW-014

STATIC WATER = 10.87' Below TOC
TD of well = 16.85'
Slight dip = 3.00' &

TW-073

STATIC WATER = Deep 12.86' Below TOC
TD of well = 15.60'
Slight dip = 2.00'

11/20/07
1635 - Continue gaging new well.
TW-072
Strat. Water = 12.39' below TD = 17.12'
Stickup = 2.50'

NOTE: Having trouble w/kur
Sol: Add inter face probe &
product does not seem to
be registering.

1715 - Leave site for lunch

0745 - Arrive @ site & meet w/ Georne & Brack Nunn. They
are in process of developing
wells.

0930 - Gage wells
TW-11 - 9.8' to water
TW-02 - 17.56' from TOC

0945 - TW-07 12.79'
TW-05 11.40

1200 - Back to field office to
work on misc. organisation

1200 - Leave site for lunch
0845 - Site arrival
0850 - M. Weimer & D. Brandon arrive at site.
0910 - BGS - Craig, Harris & Brian Cohen arrive at site.
0915 - Brief BGS on project
0930 - B. Glenn & R. Harman arrive at site.
1015 - Geophys arrive at site
1115 - Rong Nunez arrive at site
1200 - Lunch
1445 - Visit drill rig @ TW-21.
1555 - Garage well (NAPL below TDC) H2O (below TDC) Depth (below TDC)
   TW-18 10.73'
   TW-72 11.36'
   TW-73 11.96'
   OW-12 10.68
1515 - Visual of possible LNAPL
   from TW-18 (None visible)
   TW-72 (Possible very light skim)
   TW-73 (None visible) used new poly bags to get visual

Location: El Dorado
Date: 11/26/02

1520 - Photos of visual observations
   @ TW-18, TW-72 & TW-73
1525 - Photo of visual @ OW-12. Sheet absent
1330 - Back to office
1700 - Field crew back to office to pack sample
1800 - Leaves site for day

11/26/02
0645 - arrive @ site
0700 - Roy Monzela arrive @ site
& Gerdes arrive @ site
0730 - Dave Brill on site, Matt
Wynn & BGS onsite
0820 - BGS begin @
SB-09
1000 - Field visit @ SB-09
& discuss sampling protocols
beneath GW table(s)
Gauge nearby well &
GW low table on measured
GW depth. Sampler collection
from depth beneath GW
table for D60 +sked only.
1200 - lunch
1230 - Drill rig visit @ TW-24
Roy thought might have
problems @ TW-24.
1245 - Lick s. gate
1250 - Measure TW-18,72,73

Layout of LNAVL Wells

[Hand-drawn diagram of well layout]

N & 11/27/07
1200- Office work
1400- Visit project civil
1500- Visit drill crew
1600- Help pack lab samples to cooler
1730- Leave site for day

0650- Annie @ site
0700- Drive in with
dave blake from
women regarding sb
sample collection
0930- Drive w/ C. Fitzgerald
driller situation
0940- Compete for @ test
Ordered 25 sets of MADER
25 tiny Chandler, obscured
MADER LABELS
1015- Visit driller @ TWR-26
They bent their center kit
it will have to shut down
while trying to make repair
1200- Lunch
1330- Office
1600- Visit geopark & drill
1800- Leave site for day

El Dorado
El Paso
0630 - Site arrival
0700 - General site
0715 - John Miller (General)
cheid work Friday he
has to go to funeral.
0900 - Visit geophone crew
0915 - Visit AHA & receive
location.
0920 - Visit trench road &
inspect new road & equip-
jment. Found back gate
unlocked so locked it.
1000 - Visit driller @ 721-030
1030 - Locate additional LNAPL
contamination wells on TOPEKA
potential wells located in
front of 1210 & 1220 TOPEKA
1200 - Lunch
1230 - Office work & equip-
jment.
161700 - Leave site
1300 - Amie @ site & had
brief team meeting w/all
MWA crew. Discussed plan
for next week & confirmed
single procedure.
1300-1315 - Called TEST amrican
(Christopher Ford) asked abd
Terra Core kits. Requested
6 Coolers full for Sat. & Mon.
Fire & Wood delivery. Total
of 24 Coolers requested.
1400 - Met w/ Scott Kirkman
City of Els Donato City.
Reviewed plan to drill 3
wells on Topeka St. He
said he will schedule w/
read dept & he will
e mail letter of approval
As AP.
1500 - Packed several coolers
for Sat. Delivering to TEST.
1720 - Leave site.
11:15 - Arrive @ site
11:30 - Unload bricks in back
12:00 - Meet & throw in new arrival, Scott. Scott to begin work today.
12:15 - Lunch
12:45 - Photo - go over daily @ TW-43. Harry. Difficulty getting deep
13:00 - Go to town to get
13:00 - Go to town to get
13:20 - Visit Coopertown
14:30 - Office
12:00 - Lunch
1230 - Visit, hill clear
1700 - Pack cooler
17:15 - Leave site for day

10:30 - Arrive @ site
11:00 - Visit George on in MPA who we do BH location, review sampling procedure & provide oversight.
11:15 - Visit Roy @ Southern Star, National gas pipeline facility in MPA.
12:00 - Lunch
13:45 - Open STF gate for BS so they can drain LNAPL well.
14:10 - Visit drill crew @ TW-40
19:00 - Leave site.

06:45 - Arrive @ site
07:10 - Drive schedule 1 team to site
05:00 - Remove sludge ice cold weather ship / heig
10:00 - Office work
11:15 - Meet with site to head meter
12:00 - Lunch
12:45 - Meet our team & schedule per work week
13:30 - Hoypstom @ site to pump septic.
14:30 - Call office to brief & forward final words.
14:40 - Study/review technical manual.
1500 - NES Traffic Safety
(316) 945-3400 to discuss tomorrow work & order signs for project.
Seaw (316) 253-3889.
1515 - Visit to geophone crew in MPA
1800 - Leave site

0645 - Site arrival, BGS gate
0650 - Unlock tech gate
0700 - Work in TCP
0710 - Meet w/ Sean of NES
+ Traffic safety. Provided in wash zone on Topken St.
+ Place signs w/ Scott Hansen
0740 - HGS meet w/ crew.
Topics discussed:
- Traffic warrior
- Utilities
- Visibility
- Shovel/triple
- PPE
- Palestinian Traffic...
0800 - BGS gate view @ TW-74
0900 - RLE R. To drill
analytical parameters
1030 - Diet pills from TW-74
to just S. J. Landgren

12/6/02
1030 - Cardone Fox SEC -
They finished job
Resident
William McMillan
(216) 322-1118
1045 - Met Mr. McMillan
Gets billet and goes by
1100 - Divided house keeping
W/ crew to assure no
more equipment is here
1130 - Jeff Glover - Resident
720 W. 10th (314) 320-6000, (314) 323-3553
inquired about project.
1135 - Sid piles from NW-75
Transported to LF area
(just S of LF).
1215 - Lunch
1300 - Reber Scott Hansen & Army
man. Scott leaves site
1345 - BGS continue w/ go
to TW-77
1400 - Continue field work
@ Topeka St.
1420 - Meet Glenn come to assist
1500 - Office work
1600 - Visit crew &
Topeka Street. Transport
exit W LF area
1700 - Street w/ clean up
1720 - Remove board sign
1830 - Leave site
11:30 - Arrive @ site
12:00 - Review our call ticket
13:30 - Go to AHA look @ location

13:00 - NWH Staff arrive, Dave, Matt W., Kevin W., Scott H.
13:30 - Meet Steve w/ consolidator
5:00 - Can clean Western for line near the AHA

13:40 - Kevin & DM to AHA
To look @ location
13:45 - Say inquires that Carson may back down. They may have to bring another rig to site.

14:00 - Bill F. regarding AHA tomorrow.

17:00 - Team meeting to discuss weather relation.

18:00 - Leave site for day.

06:50 - Arrive @ site
07:00 - Conference call w/ field team
07:25 - USA onsite to begin prepping equipment.
08:00 - Meet w/team members drain
day's activities.
09:00 - H&S tailgate meeting @ BH-029
09:05 - Had trouble accessing BH-029
- Nearly got stuck so moved to BH-31 to begin
09:10 - BGS (Doug Forward) begins probing @ BH-31
09:20 - Collect laboratory samples
- BH-31: 0.5, 1.5, BTEx, CRO
- METACS

09:30 - Move to location @ BH-034
09:35 - Decom equipment, calibrate PID
09:40 - BGS keep hitting refusal @ 6" @ BH-034 so moved 5' straight south to try again
09:44 - PID @ BH-31-0-2' = 0.5 FPM

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12/11/07
0945 - B65 had to collect 0-1' @ BH-034 due to shallow rock & shallow refusal. Did 1st 1-4' push & to obtain adequate amount of soil.

0945 - Collect analytical samples from BH-034 BTEX, DRO, GEO, MET

1010 - B65 begins @ BH-032

1012 - B65 had to push BH-032 4'x to get enough soil for analysis. Had rock @ 1' bgs.

1020 - Collect BH-032 0.5 - 1.0 Could not get 0.5 - 1.5 due to rock @ 1' bgs.

1025 - P1D @ BH-032 0-2' = 0.8 ppm

1040 - P1D BH-32 34-02' = 1.2 ppm

1042 - B65 @ BH-037

1050 - Collect lab samples @ BH-037 BTEX, DRO, GEO, MET (composite non VOC's in box) target bottom 0.5 - 1.5 ft. VOC grab w/terra core

1053 - Note @ BH-037 0.5 - 1.5 had a Terry-like substance @ 0.5' depth SDM

1054 - B65 @ BH-038 BH-036

1110 - Collect 1st sample @ BH-036 0.5 - 1.5 BTEX, DRO, GEO, MET

Note: Catalyst carries balls present @ BH-036 @ 0.6' 1/10 - B65 heads to BH-035

1120 - B65 gets stuck while trying to reach BH-035. Had to off-set BH-035 5' South & 5' East of original location.

1135 - P1D @ BH-036 (0.2') 1.6 ppm

1145 - USA attempts to pull B65 from where they are stuck @ BH-035.

1200 - Collect lab samples BH-035 0.5 - 1.5 BTEX, DRO, GEO, MET

1230 - Office to call Towing Service

1235 - Roy leaves site

Date 12/12/07
1300 - Lunch
1330 - Start test w/ decon of bucket
1400 - BGS ready to go back to STF setup @ BH-058
1425 - Collect laboratory samples @ BH-058, BTX, DRO, GRO, MCH
1440 - Collect lab samples @ BH-057, BTX, DRO, GRO, MCH
1445 - Collect BH-056 w/ hand auger place into bowl collect VOC's first then mix compound
1450 - Collect lab samples @ BH-056, Sample collected w/ hand auger then placed into stainless steel bowl. VOC's collected first from approx 0.5 - 1.5' then remaining soil mixed for composite test
1500 - Set up @ BH-053
1515 - Collect lab sample @ BH-053
1517 - BGS set up @ BH-055
1530 - Collect lab sample from BH-055, BTX, DRO, GRO, MCH
1535 - BGS set up @ BH-054
1540 - Collect lab samples @ BH-054, BTX, DRO, GRO for metals
NOTE: Chris Fitzgerald visited solvite @ BH-054
1600 - Attempt to mob to BH-055
1700 - Package samples for shipping
1800 - PID readings
BH-35 0.1
BH-37 0.5
BH-53 0.4
BH-54 2.5
BH-56 0.9
BH-57 6.1
BH-58 0.9
1815 - Leave site
12/12/07
Location: El Dorado
Date: 12/13/07

Project / Client: E2 200

0630: Start work on site
0700: Meet with Bill Lehman
0900: SAH (Scott Hansen) & Doug Fennell onsite

BH-93 @ 0.5 - 1.5

0915: BH-98 @ 133 soil description
- Black silty clay w/ abundant sand & gravel.
- Strong red, dry

0915: BGS @ BH-132 on concrete

BH-132 soil description:
- Surface = 3" concrete, 6" of fine to medium sand, black silty clay
- 6" to 2' clay, fine

0930: Collect lab sample @ BH-132

BTEX, DR0, G20, M319

0935: BGS @ BH-131

BH-131 soil description:
- Ground surface, 0.2' light brown silty clay
- 0.2' light brown silty clay w/ abundant gravel

1015: Laboratory sample @ BH-130

BTEX, DR0, G20, M319

1015: BGS @ BH-129

1015: BH-129 soil description:
- Surface = gravel, 0.2'
- Light brown silty clay w/ abundant gravels, 0.1'
- 1-2' of black silty clay w/ clay
- Strong odor, clay red, mixed material @ 15'

1020: Lab sample @ BH-129

1030: Set up @ BH-135

Date: 12/13/07

---
1050 - Soil description @ BH-135:
Surface - gravel
0.2' - black silty clay w/ black shale @ 6'. Shilky moist, mild odor, dry.
Collect MS/MSD & skipcall @ BH-135

1055 - Lab samples collected
including MS/MSD & dry
all from BH-135 0.5-1.5'

1120 - BGS @ BH-137
Description BH-137:
Surface - gravel
0-2' - gray to black fill material, "coke" like gloss
shards dry, abundant gravel
Collect lab samples @ BH-137, BTEX, DIO, BRO

1145 - BGS @ BH-136
1150 - Collect lab samples @ BH-136
Soil description BH-136
Surface - gravel
0-2' - pilocarpine 1 min. to air

1150 - Dean, break for lunch

1250 - BGS @ BH-134
1315 - Soil description BH-134 0.2'
Light brown silty clay 0.5'
dark matter "coke fines" 1.5-2.0'
Some odor.

1335 BGS @ BH-138
Soil description
Light brown silty clay 0.5' nonplastic
gravelly silty clay 1.5-2.0' dry
medium odor

1405 BGS @ BH-142 New position 5' southeasterly
Description BH-142
Lt brown to dark black silty clay at 0-2'
medium plasticity, some odor
"coke" material mixed in throughout

1415 BGS @ BH-141
Description:
Black dry silty clay w/ some gravel
Lt odor, low plasticity

1430 BGS @ BH-139
Description: Lt brown sandy silty clay
no odor, medium plasticity
14:40 BGS @ BH 140
Description: Lt brown + dark brown
High moisture, silty clay, medium plasticity, no odor.

15:30 BGS @ BH 16
Description: Grey, silty clay
High moisture, low plasticity,
No odor

15:50 BGS @ BH 18
Description:
0-0.5 Sandy clay, Lt brown
High moisture, low plasticity
0.5-2.0 Silty clay, dark brown
Low plasticity, medium moisture.

16:30 Pack coolers for lab.

17:20 Return Log Book to Doug Nick

17:30 Asmt w/ packing sampler

17:35 P1D Reading

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12/18/07
0700 - Arrive at site
0735 - Discuss with Dave B. & George regarding H & S & Christmas schedule.
0720 - Assist Dave w/ prep for day.
0800 - Visit drillers @ TW-63
1000 - Look @ several remaining TW locations for access
1005 - Inform drillers to move TW-50 because they encountered rubble @ 3' deep. They will move 10' N & try again.
1010 - Review locations
   TW-71 - only way to access (due to wet weather) is to remove beam on W. side of scan & access from W. If beam is removed, should be ok to access photo taken.
   TW-70 - May be able to back up to make scan near BH-122 & place well just E of BH-122. This would move from original location

---

Location about 45-50' South of original location. If time would be to back in from W. as far as possible, bit would still be 45-50' West of original location.

TW-57 - This location is probably accessible from the back gate located near gate - suit - station. Will have to get key to open gate. Will have to be on the drillers to make sure it’s ok at location.

TW-59 - Not accessible @ this time. May be accessible after soil dries however there is a lot of surface sand. May might get stuck even after soil dries up. May need to do this one on road located to E of original location.

1030 - Dave B. called, having difficulty @ TW-50. Also Mike Emerick @ the end of day.

---

12/20/07
11:25 - Interview H & S w/ Mike Gannon.
11:45 - Visit Shell & Dave w/ Mike Gannon to answer H & S
12:00 - Lunch
13:00 - Return from lunch
13:05 - Drill rig broke down
  mast cylinder broke
  will load unit & pump
  from site to make repairs
13:20 - Drill head - down mast
  safely & begin to break
  down equipment
14:00 - Back to office
15:00 - Office work & Dave
16:00 - 15A omitted go & look
  @ TW-70 & back gap.
16:30 - Office work
18:00 - Leave site
El Dorado Refinery  
EPC Phase III Sed. Inv.  
47° Overcast, Breeze out of S.

0900 Arrived on-site and calibrated PID
0925 Left for SED-05
0930 Arrived at SED-05A and set up tape.
1000 Collected sample SED-05A.
1010 Collected sample SED-05B.
1020 Collected sample SED-05C.
1045 Arrived at location SED-11
1115 Collected sample SED-11.
1145 Break for lunch
1215 Arrive back on-site
1225 Arrive at location SED-10.
1250 Collect sample SED-10.
1300 Arrived at location SED-12.
1330 Collected samples SED-12, SED-12-45, SED-12-HSD.
1400 Collected duplicate SED-12-50.
1410 Arrived at location TW-01(0-2).
1440 Collected sample TW-01(0-2).
1530 Cleaned up & packed samples
1645 Left site for the day.

END OF PAGE

END OF DAY 1/7/08
Location: El Dorado Refinery       Date: 1/8/08
Project/Client: El Paso/Phase III Inv.

33° Overcast. 25-40 mph winds

0730 Arrived on-site (M. Warner, D. Bulkenback, K. Jackson)
0745 H&S tailgate meeting
0800 Loaded truck and left for SED-17
0805 Arrived at SED-17
0850 Collected sample SED-17
0900 Arrived at location SED-380
0910 Collected sample SED-38D
0915 Arrived at location SED-37B
0930 Collected sample SED-37B
0935 Arrived at location SED-35B
0950 Collected sample SED-35B
0955 Arrived at location SED-21D
1015 Collected sample SED-21D
1020 Arrived at location & SED-23D
1030 Collected sample SED-23D
1035 Arrived at location SED-29D
1050 Collected sample SED-29D
1052 Trimple GPS location SED-29D
1055 Arrived at location SED-25B
1110 Collected sample SED-25B
1130 Break for lunch
1200 Arrived back on-site
1245 Phone call w/ Doug about

Collecting PB sample on 1/9/08 if weather is good
1300 Packed samples
1400 Left site for the day

END OF DAY

END OF PAGE
35° Sunny 10-15 mph wind out of S.

0745 Health and Safety tailgate meeting.
0800 Arrived at Aerakon yard.
0830 Located spot for PB-SE0-24B.
0850 Collected sample PB-SE0-24B-156-162
0900 Moved boat to Polishing Pond.
0910 Located spot for PB-SE0-18D.
0930 Collected sample PB-SE0-180-34-78.
0940 Loaded boat into truck and moved over to the Harley Pond.
1005 Located spot for PB-SE0-160.
1015 Collected sample PB-SE0-160-43-57.
1030 Moved boat back over to blowers.
1100 Cleaned up Sediment Sampling equipment.

0800 - Arrive @ site & meet w/ Asplundh crew to begin moving.
0805 - H+S briefing, including H+S tailgate meeting.

Asplundh crew members:
Randy Martin
Ken Reh
Roman Loehr

0810 - Review area to be mowed &/or weeded.
0940 - Randy Martin leaves site & other crew members offload equipment.
0950 - Ray Harrington arrives on site.
1000 - Asplundh began mowing.
1045 - Meet w/ Jeff with
that site.
1100 - Check on mowing &
215 - Leave site.
1215 - Leave site.

5/29/08
1200 - Arrive @ site & unstack boat
1300 - Keep boat, unstack spray paint for access
1400 - PSB turned form.
1410 - Hunt site meeting
1430 - Set up boat & get prepped for PSB-01 in E. portion of Mainland (Site)
1445 - Drink & stability test sampling platform - wind in coming, difficulty w/ keeping sampling tools aligned.
1515 - Retake soil core from PSB-01 & leave on boat.
1600 - Entire team to collect PSB-01 using dual tube system.
1630 - Difficulty putting in rods out.
1800 - Leave site for dinner

0715 - Arrive @ site
0800 - Meet with crew Matt & Brad B. PS5 crew, Jason & Tony & Jerry & Shawn (lead)
0830 - Survey pile yerds
2:30 - them PS5 finish pile & bring through shovel @ PSB-01
0930 - Add 4.55 gallon container (clean) to follow @ boat for cleaning.
PSB-02 multi cleaner.
1400 - Lunch
1600 - Leave site

[Signature]
10/28/08
1200 - Arrive @ site &
inspect landjam
remove rocks & metal
debris from pile.
1315 - Eri, Thayer & NC
& Dryg
at site.
1330 - Dice me TW soil
@ the landjam
1430 - Burn, tractor &
shovel
1500 - Back to landjam
to inspect & take
measurements.
1700 - Off site

Diagram:
1030 - Arrive at site to meet w/ Bill Harken of Magellan.

1100 - Bill H. looked over all of the STF (southern) proposed boring & cleared all of them. He said Magellan does not have anything on N. portion of S/F or in any area W. of refining road.

1130 - Visit w/ field crew. Told them to keep eye on work & stay away if it becomes too difficult to do the work properly & work safely.

1145 -Arrived at base camp. Almost all appear in good spirits.

1230 - Leave site

Date: 11/6/08
0645 - Arrive @ site
0745 - Meet with R. Dest B.
ami @ site
0800 - Meet with Mr. Jon, Brian, and Earl.
Get crew out of spring fund. Band get samples prepared.
0900 - PCS, Field Superintendent arrives
0930 - Tidal gate H45 meeting
1030 - Set up @ STF Pit site trug location.
STF-0158 STF-0158-02
1000 - Meet with Enterprise (Mapco) to locate their pipelines. Ascended to Enterprise all of their lines were in S. position of STF & are abandoned.
They should be 3' - 4' for bg's. Enterprise looked at might strong. Suggest weekly & said we were ok.
1040 - Go to STF to meet w/ MW, BB & P25 (JA)
1145 - Lunch
1300 - Bus to site to the STF.
1400 - Meet w/ Bill & go over some of the daily operations for the Supplemental Investigation.
1530 - Secure site.
1245 - Arrive @ site
1300 - Unload equipment
1350 - H+S Tailgate meeting

1400 - AEI (Dallas) arrive @ site: Chuck Clark, Butch Hearn

1410 - AEI unloads equipment from trailer

1430 - AEI leaves site to get their drill rig

1500 - Booth and some of the drill team on site

1500 - Call Maggie Weaver of CDHE to discuss drill at sample plan. OK to begin drilling @ MTBE location E. of Tyler St. She may be @ site next Tuesday (11/25/08) to split sample.

1700 - Office work

1730 - AEI leave
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>0800</td>
<td>Calibrated YSI-556</td>
<td>pH: 10.00; 10.04 → 10.00; 7.00; 7.06 → 7.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sp. cond.: 1.409; 1.422 → 1.409</td>
</tr>
<tr>
<td>0810</td>
<td>Arrived at TW-112</td>
<td>DTW: 5.60' Flow Rate: 500 ml/min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Draw Down: 0.20'</td>
</tr>
<tr>
<td>0900</td>
<td>Collected sample TW-112</td>
<td></td>
</tr>
<tr>
<td>0935</td>
<td>Arrived at well TW-89</td>
<td>DTW: 19.52 Flow Rate: 400 ml/min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Draw Down: 0.12'</td>
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<tr>
<td>1025</td>
<td>Collected sample TW-89</td>
<td></td>
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<tr>
<td>1055</td>
<td>Arrived at well TW-90</td>
<td>DTW: 13.71 Flow Rate: 500 ml/min</td>
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<tr>
<td></td>
<td></td>
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<tr>
<td>1145</td>
<td>Collected sample TW-90</td>
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<tr>
<td>1310</td>
<td>Arrived at well TW-91</td>
<td>DTW: 9.35 Flow Rate: 500 ml/min</td>
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<tr>
<td></td>
<td></td>
<td>Draw Down: 0.21'</td>
</tr>
<tr>
<td>1410</td>
<td>Collected Sample TW-91</td>
<td></td>
</tr>
</tbody>
</table>

The manufacturers of "Rite in the Rain" all-weather writing products are grateful to the numerous environmental experts who have contributed to the development of this book. Should you have any additions, improvements or corrections for future publications of this field book or have suggestions for other environmental field book formats, we welcome your input.

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Common Field Data Error Codes

Error codes are used to explain common mistakes and are written above or close to the mistake.

Commonly used error codes include:
- RE: Recording Error
- CE: Calculation Error
- TE: Transcription Error
- SE: Spelling Error
- CL: Changed for Clarity
- DC: Original Sample Description
- DA: Changed After Further Evaluation
- WO: Wipe Over
- NI: Not Initiated and Dated at Time of Entry
- OB: Not Recorded at the Time of Initial Observation

Note: Error code should be circled, dated, and initialed when recorded.

Hazard Classifications

Class 1: Explosives
Class 2: Gas
Class 3: Flammable Liquid
Class 4: Flammable Solids (Potential spontaneous combustion, or emission of flammable gases when in contact with water)
Class 5: Oxidizing Substances and Organic Peroxides
Class 6: Toxic (poisonous) and infectious substances
Class 7: Radioactive material
Class 8: Corrosives
Class 9: Miscellaneous dangerous goods

Container type abbreviations (for sampling guidelines)
- BR: Boston Round
- ABR: Amber Boston Round
- AJ: Amber Jug
- AWM: Amber Wide Mouth
- Poly: Polyethylene Bottles
- BOD: Bottle
- CWM: Clear Wide Mouth
12/3/08

the AHA stock pile sampling

- Christine Breakeyman, Matt Warner, Wesley the operator
- started

TR-13, 0-1’ Approx. 7’ height ~ 9:00 am

- Silty GRAVEL (GR) w/sand, 45% gravel, 30% sand, ~25% fines, fine to coarse gravel, fine to coarse sand, coarse fraction sub-rounded
- a few larger clumps of material stuck together w/asphalt material, road base, odor, Gravel is hand, fines are low to medium plasticity, low to medium dry strength, low toughness, Brown to Blackish color, dry to slightly moist, some organic material near top
- (stock pile of road base & dirt):

<table>
<thead>
<tr>
<th>TR-13, 0-1’</th>
<th>PID Readings @ 9:50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2’</td>
<td>0.0 ppm</td>
</tr>
<tr>
<td>2-3’</td>
<td>14.8 ppm</td>
</tr>
<tr>
<td>3-4’</td>
<td>23.4 ppm</td>
</tr>
</tbody>
</table>

-sampled collected @ 9:30 am
- for: TRH - CRC
- TRH - DRC
- 82600 VOC
- skinner metals
- SVOCs

TR-13, 1-2’

- increase in black tan material, more large "clumps", stronger odor, no more organic material.

TR-13, 2-3’

- not as many "clump", Blacker color, fines more plastic from oil material / road material.

TR-13, 3-4’

- a couple cobbles, more chunk of oil slag material in gravel / cement chunks ~ 9:45 am
TR-12, 0-1'
Approx. ft height. 10.15 psi
silty GRAVEL (Gravel) w/ large chunks of asphalt material, 50% chunks of asphalt, 25% gravel, 15-20% sand, 5-10% fines. Fine to coarse gravel, fine to coarse sand.
sub-rounded to subangular gravel, max asphalt chunk ~ 1 ft, max gravel ~ 1", Gravel is hard, low to med. plasticity of fines, low tough, dark brown color, Black asphalt/oil material, some road base odor, dry.
(Stockpile of dirt & asphalt/oil material mixed together) (minor amount of roots)

TR-12, 1-2'
increased moisture, increased fines (10-15%)
increased odor from asphalt, no organic matter
/no roots

TR-12, 2-3'
large chunks of asphalt/oil chunks,
still a road base odor, increased amount of asphalt chunks (60-65%)

TR-12, 3-4'
increased amount of asphalt/oil material (~75%), asphalt chunks pretty much just covered w/soil material rather than being mixed in w/soil. ~10 psi
sampled full suit @ 10:25

PID readings

<table>
<thead>
<tr>
<th>Location</th>
<th>PID Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR-12, 0-1'</td>
<td>5.2 ppm</td>
</tr>
<tr>
<td>1-2'</td>
<td>10.1 ppm</td>
</tr>
<tr>
<td>2-3'</td>
<td>23.6 ppm</td>
</tr>
<tr>
<td>3-4'</td>
<td>36.2 ppm</td>
</tr>
</tbody>
</table>
TR-11, 0-1' Approx. 8' height 12:30pm
Silty GRAVEL (GM) with sand, 80% asphalt/oil material, 10% gravel, 5-8% sand, 2-5% fines, coarse fraction subrounded, fine to coarse gravel, fine to coarse sand, max 1/2' gravel, max 1 1/2' asphalt material w/some slag material, gravel material is hard, fine material low plasticity, low-medium dry strength, low toughness, brownish dark brown color, asphalt material black, strong asphalt/oil odor, moist ( Dirt, soil, asphalt, and oil material waste pile)

4-5'
increased limestone grain in asphalt, more oil in matrix (very goey in consistency), 3-5% ash, 85% asphalt
-1.00 ppm

Sampled full suit @ 12:50pm

PID Readings
TR-11, 0-1' 161 ppm
1-2' 88.3 ppm
2-3' 307 ppm
3-4' 264 ppm
4-5' 311 ppm
TR 10, 0-1’  1:30 pm

approx. 5’ height

silty GRAVEL (GMM) w/sand, 80-85%
asphalt/oil material, 10% gravel, 5% sand
5% fines, fine to coarse gravel, fine to coarse
sand, subangular to subround, max 1” gravel,
6”-1’ oil clumps/asphalt, gravel - hand,
some slag particles, nonplastic fines, low-
toughness, dark brown, black for oil/asphalt,
much, strong oil/asphalt odor. (asphalt/
oil waste pile w/ a little soil mixed in)
(some rootlets)

1-2’

Blacker color, larger oil/asphalt chunks,
(a few larger diameter rootlets)

2-3’

Increased oil/asphalt material (85-90%)
darker black color, more dense (stays
in a large “mass” in bucket)
(no rootlets)

Full suit collected @ 1:50 pm

PID Readings

<table>
<thead>
<tr>
<th>Depth</th>
<th>TR 10, 0-1’</th>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2’</td>
<td>3.9</td>
<td>ppm</td>
</tr>
<tr>
<td>2-3’</td>
<td>13.6</td>
<td>ppm</td>
</tr>
</tbody>
</table>

-155 ppm
TR-15, 0-1' approx. 5' height 8:30 pm

Silty GRAVEL (GM) with sand, 80% oil/ asphalt material with Limestone grain, 10% Gravel, 5% sand, 5% fines, subangular gravel, fine to coarse gravel, fine to coarse sand, non-plastic fines, max 1" gravel, 1" chunks of oil/asphalt chunks (when backhoe dumped the sample, it all stayed in one large mass she broke it apart, so the oil is keeping it all together), coarse fraction does have some limestone grains; gravel is hard, low-med toughness, dark brown color, black for oil/asphalt, odor of oil/asphalt material, moist (oil, asphalt, oil waste piles) (some rootlets)

1-2' a little less oil material, asphalt is in smaller chunks, rather than one large mass sticking together, but more limestone grains in gravel

2-3'

75% oil/asphalt material, more gravel (15%), less oil, it is more broken up and not one large mass as 0-1' sample, little less of an odor

-3:10 pm

Sample sent collected @ 3:00 pm

PID readings

TR-15, 0-1' 11.1 ppm

1-2' 44.4 ppm

2-3' 60.6 ppm
TR-16, 0-1'  
Approx. 5' height 3:30 pm  
Sandy Silt (ML) with gravel & cobbles,  
5% Cobble, 10% gravel, 20% - 25% sand,  
60 - 65% fines, fine to coarse gravel, fine to  
coarse sand, subangular to subrounded  
particles, max 6" cobble, large grains  
are limestone, some shale of a gray color,  
larger grains friable to mud, hard, low  
plasticity, low dry strength, low toughness,  
light brown color, no odors, strong reaction  
w/ HCl (soil stockpile) (no organic/ceolite)  

12' slightly moist  

2-3'  
Cobble size piece of slag/oil/asphalt mixture,  
some boulder size rock  
- 3:55 pm  

Full suit of samples collected 3:40 pm  
PID readings  
TR-16, 0-1' 5.1 ppm  
1-2' 8.9 ppm  
2-3' 9.0 ppm
El Durelo 12/4/05

0830 - H+S - top valley, windy
0900 - set map & ANA on
Est., pile height 7'.
TR. 14 0-1'

Dark brown (7.5YR-3/2) silty clay w. abundant gravel &
sandstone (minor). Gravel in limestone & chert from
small to large rock - size fragments 0.8" diameter.
Angular broken fragments of limestone and quartz sand
piles. Black clayey
throughout w. abundant black
streaky & softer-like material, some black stones
and metamorphic.

Texture includes:

- 57% cobble, 107% gravel, 157%
- 20% sand, 65-75% fines.
Fine to coarse sand, angular
and rounded grains

- Cotten exam: samples up
and down. No other food.
Material is moist &
moderately plastic.

1-2' - similar to 0-1' w/ decreasing moisture. Less
abundance of limestone
material > 5%. Absence
black aggregate - like.

Bentonite 7.5YR - 4/12, 8.24

1-2' continued.
Some minor debris including
black granite - 3" diameter

2-3' - Brown (7.5YR-4/2) silty
clay, slightly moist, abundant
fine sand and gravel. Minor
organic matter. Minor debris
including metal wire. Fine to
coarse sand, rounded to angular
fine to medium gravel.
Limestone gravel? Some large
sand in quantity, sand.

0930 - collect sample 2-4' @ TR. 14
3-4' - Brown (7.5 YR - 5/2)
silty clay w/abundant sand
& gravel. Black staining
& apatite material throughout.
Some debris w/ixing plastic.
Gravel from 2 to 4000 sizes.
Very resistant w/HCl (leucoxene).
Fines - 50%, Sand - 30%.
Gravel - 20%. Matrix, sh.
Pothi, at other small
breaks to cut through.
P1D readings @ TR-14
0-1 - 7.7
1-2 - 10.2
2-3 - 10.9
3-4 - 11.1

1015 - USA deep bucket
before moving to TR-21.

1905 - Note: weather, cloudy
4 wind @ -35 F. Slight
wind from N @ -10-15 MPH.

TR-21 - Estimate pile height
@ 5.0' above grade. Plan
to collect samples for logging
@ 0-1, 1-2, 2-3 w/lab. samples
@ 2-3'.

TR-21 0-1' - Dark brown, silty
gravel. Abundant sand, gravel,
and black apatite material.
Large chamber of apatite material
above at three footings match
of apatite-like rocks - up
to 1.5' diameter. Apatite
material has leucoxene sand
and gravel (angular) in
matrix. Large apatite masses
are hard, frequently w/this
strate or layers that appear
like freestone. Silt is dry &
very cohesive. Ground is fine
to coarse @ m 40%, sand
25%, fines 25%. Advanced
plastic mother @ surface.
Matrix gritty gravel; large
granular sand 1/2 to sand.
To room.
1020 - Collect TR-21
2-4' 2-3'

TR-21 2-12'. Dark Brown (7.5YR 3/2) sandy silt. Dry, soft, not @. Abundant fine sand, fine to coarse, angular to sub-rounded, reactive w/ HCl. Some marine asphalt churning up to 8" diameter. Asphalt masses are have abundant limy brown sand and gravel embedded. Fine to coarse sand & fine grains embedded in asphalt mass. Fine sand and gravel in limy brown & mildly reactive to HCl. Minor organic matter mildly @t, scattered, Gen 1-5%.
Sand 30-40% avg, @ sub K
Fine 50-60%
Minor (one clump) of cement-debris cobble size debris. Asphalt mass finely sand w/ small, limy brown, limonite matrix, brown limonitic gray.

TR-21 2-3'. Dark brown 7.5YR 3/2) gravelly silt. Dry, soft silt, w/ much minor organic, mildly reactive material. Abundant asphaltic matter w/ limonite in matrix. Some masses are 3 75-80%
Asphalt w/ 20-25% limonite sand & gravel other asphalt mass are 75-80% limonite w/ asphalt @ 20-25%.
Sub-limulite matrix, cobble present on well.

P/H
0-1 5.2
1-2 7.6
2-3 7.6

045 - Use pace marker. Back up pole then do coring bracket before moving onto TR-22
TR-22 (0-1) interval

TR-22-0-1' - Brown (7.5 YR 4/13)
- Gravelly silt w/ abundant sand.
- Sand is fine to coarse grained, angular to sub-rounded. Sand is 95% limestone w/ minor sub-rounded, greyish, sand.
- Abundant organic matter is present, root fragments and grass material.
- Asphaltic matrix is present, filling gaps up to 8" diameter.
- Fine to coarse gravel, being 1/4" to 1" across w/ hel. Silt angular to sub-rounded.
- Asphaltic matrix has minor gravel interbedded mixed in. Gravel is reddish, white to grey.
- asphalt is friable easily with streak w/ humus, containing fragments of white, black sand.
- Soft to soft dry w/ no odor.

TR-22-1-2' - Similar to
- Other w/ wider greyish asphalt matrix. Dark, no odor.
- Slightly organic matter.

TR-22-2-3' - Dark brown
- Gravelly silt. Abundant fine to coarse, angular to sub-rounded sand. Abundant organic matter is rich.
- Humus present, sandy and powdered sand. Abundant lime gravel, fine to coarse 1/4" to 1". Abundant lime gravel is present, angular to sub-rounded. Dry, non-colour, no odor. This interval has abundant asphaltic matrix. Matrix made up ~ 75% of this interval. Asphalt matrix composed of light grey sand and gravel. Fills thin areas.
- When staked, flushed. Organic matter (grass, etc.) noted within matrix of asphalt.
- fractured. Basalt mass
matrix approx 80% basalt.
10-20% gravel, minor sand
minor <5% organic matter.

PIL 0.1
1.2 7.2
2.3 7.9

1110 - Collect sample TR 22 (2-3')
1120 - USA place material back
to original p.to.
1130 - USA claren.
1145 - Lunch.
1300 - Return from lunch &
begin @ TR 26.

TR 26 (0-1') Dark brown 4R
(7.5 YR 3/12) Silt w/ abundant
sand, gravel, & opxlate matrix
throughout. Organic material
present w/gravel & few fragments
near surface. Intervally composed
of < 25% opxlate matrix
material; 10-15% sand & gravel.

TR 24 (1-2') Brown (7.5 YR 4/4)
silt w/ abundant sand & gravel.
Similar to above. Dey. Some
minor organic. Fine = 80%.
sand = 10-15% gravel = 10-15%
opxlate matrix. 10-15%.
Dey (no) & dark, mixed w/ organic.
2-2' - Brown silt same as above w/ slightly more coal black matrix - 20.25%.

3-4' - Dark brown silty clay (7.5 YR 3/13), slightly more mottled, moderately plastic, no other abundant silt, sand & gravel throughout. Black stain & coal black material throughout. Metal strip present (1/2" x 12" long).


Asphalt matrix @ 25-30% of interval. Asphalt matrix has limestone gravel in matrix. Asphalt matrix breaks easily when struck w/ hammer. Considerable organic, material lulls. Minor organic with asphalt matrix 25% of mass.

- Clay described above in cl. cohesive.

TR-26 PID

<table>
<thead>
<tr>
<th>ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
</tr>
<tr>
<td>1-2</td>
</tr>
<tr>
<td>2-3</td>
</tr>
<tr>
<td>3-4</td>
</tr>
</tbody>
</table>

1320: Collect TR-26 (3-4')

1330 - USA wood material back to TR-26 then down bedrest.

1400 - USA wood to TR-20 - 0-1' - Brown silt (7.5 YR 3/4) with abundant sand & gravel. 4/13

Dry, rigt, no odor, organic, small amount of organic inside Kool Kage & gravel. Asphalt matrix @ 20% of mass. Ferr = 60-70%

Sand - 20%, gravel - 10%

Concrete mere hard several inches w/ hammer beyond 4". No notable odor upon breaking. Visible liquid. Other matrix hard easily w/ not odor. Matrix w/ minor matrix sand & gravel.
**TR-20**

1-2' - Some wet above w/ decreasing organic matter.

2-3' - Dark gray (7.5 YR 3/1)
- Clayey silt w/ abundant sand,
- gravel & asphalt material e.g.,
- asphalt material inclusions (boxes) w/brown clay &
- organic (straw-like) material.
- Soft & dry w/o breaking asphalt material. Does not image. Somewhat malleable
- like material, no cancellous
- fracture or w/most of the
- other asphalt material noted
- pre-1950. Straw-like
- material is yellow-green,
- & blemish < 1/" diameter.
- Much gravel sand, large, 4'-15" in length
- to 9' percent < 5%.

3-4' - Same as above w/ mica in asphalt material & bismuth
- cobbles. Some plant material
- including small twigs,

4-5' - Very dark gray (7.5 YR 3/1)
- Silty clay w/ abundant sand,
- gravel, & asphalt material.
- Slightly moist, slightly plastic.
- Soft sand in boxes,
- soft rounded to angular.
- Fine - 40%, asphalt material
- > 40% sand < 20%, gravel
- < 5%. No odor.

**PID @ TR-20**

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1'</td>
<td>0.0</td>
</tr>
<tr>
<td>1-2'</td>
<td>0.0</td>
</tr>
<tr>
<td>2-3'</td>
<td>1.1</td>
</tr>
<tr>
<td>3-4'</td>
<td>2.1</td>
</tr>
<tr>
<td>4-5'</td>
<td>0.8</td>
</tr>
</tbody>
</table>

1425 - Collect TR-20 (4-5')
1430 - Use same material
- back to pile, deem gone
- TR-19
1500 - Begin @ TR-19
TR: 19 (10-1') Dark brown
7.5 YR 3/2, silt w/ abundant
sand, gravel & asphalt material
& pebbles. Sand fine to coarse,
angular to sub-rounded & medium
white. Gravel fine to coarse
w/ some small limestone cobbles.
White or gray pale brown
10 YR 7/13. Dray, soft,
very cohesive except asphalt
material. Asphalt material
moderately hard & plastic
w/ streaks of dominant concrerte.
Asphalt material mixed w/ minor gravel & plant debris.
No odor.

1-2'. Same as above w
minor asphalt material.
Asphalt more darkening.

AT 50'. Burn 5-1'. Dark
asphalt. Breaks easily
when struck w/ hammer.

TR: 19 (2-3') Same as above
Gravel material 30-80%
& asphalt.

2-4'. Dark brown 7.5 YR 3/4
silty clay w/ abundant sand &
gravel. Sand fine to coarse rounded
to angular. Fines being gravel.
Asphalt material is dominant
w/ mixed s/ sand & gravel.
Asphalt material 30-40%
Asphalt material mixed concrete
40-50% fine grained,
combined to sub-angular
gravel w/ some
sub-rounded gravel as well.
Concrete fracture w/ streak
w/ hammer. No odor.

4-5'. Dark Brown 7.5 YR 3/2 silt
clay w/ abundant sand, gravel & asphalt.
Asphalt material 50%
of material. Slightly moist,
mod. plastic, cohesive, minor
organic material. Sand in
fine to large, angular to
sub-rounded, primary texture
12/5/08  AMA SAMPLING

0800 OUTSIDE - HOLD HIS MEETING  85° F  Sunny

0830 UTA SETUP BULK IN TRUCK  86° F

0845 TR-1B EST HEIGHT  74° F  #1 BLUEGRADE

TR-1B PID

<table>
<thead>
<tr>
<th>Depth (in)</th>
<th>PID (ppm)</th>
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</thead>
<tbody>
<tr>
<td>0-1</td>
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<tr>
<td>1-2</td>
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<tr>
<td>2-3</td>
<td>2.1</td>
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<tr>
<td>3-4</td>
<td>6.2</td>
</tr>
</tbody>
</table>

0-1' DECK Surface  7.5YR 3/2  Silty Clay

Abundant organic material with some
Limestone close to fine sand  Abundant organic
materials 

2.5% Organic  
Silty Clay is moist - no plastic, no odor
30% Asphalt Mixture
60-90% Fine Gravel Silt & Clays

47.5% Sand  No visible gravel

Brick-stamped Columbia MO Standard
Asphalt mixture composed of 90% asphalt
47.5% gravel  5% organic material
Fractures easily with force with hammer

1520. Collect Sample @ TR-19 4-5
1530. USA and material
Send to lab
1630. Push gravel
1745. Leave Site  12/4/08
1'-2' Dark Brown Silty Clay 7.5YR 3/3
Abundant Asphalt Mastes, Some Fine To Coarse Sand, Some Gravel
Abundant Organic Material, >5% Cobble
Coarse Are Limiting
Clay is Slightly Moist - Nonplastic-No Odor
50% Asphalt Mastes
40% Finegrain Silt
10% Sand/Gravel
Asphalt Mastes Entiey with Hammer
90% Asphalt
5% Organic Matter
5% Limey Gravel

2'-3' Dark Brown Silty Clay Slightly Above
Abundant Asphalt Mastes with Organic Material, Abundant Organic Material, in Asphalt Mastes 75% Asphalt, 25% Straw
25% Straw
Soil Slightly Moist - Nonplastic No Odor
40% Asphalt Mastes
40% Silty Clay
50% Organic Matter

2'-4' Dark Brown Moist clayey Silt
7.5YR 3/2 and Odor - Some Coarse Sand
Abundant Organic Material, Roots and Leaves
Abundant Asphalt Mastes, Pliable
Composed of: 90% Asphalt
<5% Organic Material (Roots)
>5% Gravel
50% Asphalt Mastes
40% Clayey Silt / Some Sand
10% Organic Material
0%30 USA Core Material, Back to Field
0%40 Move to TR-17

TR-17 Estimated Height 8' Above Grade

0'-1' Dark Brown Silty Clay 7.5YR 3/3
Abundant Asphalt Mastes
Abundant Organic Material, Grass, Roots
70% Soil-Slender, Slightly Moist
Nonplastic
20% Asphalt Mastes
10% Organic Material
Asphalt mixture composed of:
80% Asphalt
10% (mass) organic matter
10% subangular gravel
Fractures easily with hammer

1'-2'

Large Asphalt masses
Silty Clay 75%=3/3 slightly moist
With some fine gravel
Abundant organic material
Some debris: one 8' piece of rebar
60% Silty soil
15% Asphalt masses
5% organic material (leaves, sticks)

Asphalt masses composed of:
90% Asphalt
< 25% subangular gravel
< 5% organic materials

2'-3'

Soil same as above with coarse sand
Slightly moist non-plastic
60% Soil
30% Asphalt masses
< 5% organic material
< 5% limestone clinkers

3'-4'

Soil: Silty Clay 75%=3/1
Dark Brown Fine to Coarse sands
Slightly moist - non-plastic
Abundant Asphalt masses

Soil: Silty sand 75%=3/1
20% Asphalt masses
5% Organic material

Asphalt masses composed of:
95% Asphalt
10% limetidal clinker subangular
< 5% light colored tan clay
5% Organic material
5% Subangular gravel

DEBASIS in pile at well, gravel
Tin or aluminum (2" x 2" crimped)
Large Asphalt chucks
Composed of:
80% Asphalt
15% organic material
15% subangular gravel
Fractures easily with hammer.
Asphalt fractures easily with hammer.

4'-5' Brown silty clay soil 75% ye 5/4
To silt with sands fine and coarse
Some dark brown stiff clay
50% soil
45% Asphalt chunks
5% organic matter small roots
Some little pieces of asphalt (5 x 3 x 3)
Pieces composed of
75% Asphalt
10% limestone angular gravel
10% organic material (roots)
5% soil, dark clay & moist light clay
Some asphalt matrix fractured
Easily with hammer
Some were broken with angular fractures

TR-17 PID
0'-1' 0.0
1-2' 0.0
2-3' 0.0
3-4' 2.0
4-5' 2.1

Sample 4-5' @ 1000

10945 Use moving material back to pile
1105 TR-24

0'-1' Brown silty sand dry 7.5 ye 3/4
Small gravel and bits of organic material, small clumps of asphalt
No odor
Abundant asphalt matrix
Abundant organic material (roots, grasses)
Asphalt matrix composed of
75% Asphalt
10% limestone gravel and other subangular small gravel
5% organic material
5% coarse sand

1-2' Soil same as above
More abundant asphalt matrix; larger
Scarce abundant limestone gravel

Asphalt matrix comprised of
70% asphalt
25% limestone gravel (subangular)
5% fines and rounded gravel

2-3' Brown silt, slightly moist 75% YR 3/4
Abundant gravel, some dark brown clayey
chunks
Abundant asphalt matrix comprised of
75% asphalt
20% limestone subangular gravel
5% fine grained sands

Large asphalt matrix comprised of
75% asphalt
20% soil
5% coarse sand
Excavated easily with sharp wire hammer

TR-24 PID

<table>
<thead>
<tr>
<th>Depth</th>
<th>ppm</th>
<th>Sampled 3-4' @ 130</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1'</td>
<td>0.5</td>
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<tr>
<td>1-2'</td>
<td>0.9</td>
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<tr>
<td>2-3'</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>3-4'</td>
<td>0.9</td>
<td></td>
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</tbody>
</table>

1200 Wrap-up sampling for the day - Clean up area
Item 3 to before building to pack samples.

1240 off site

[Signature]
12/5/08
12/9/08

0800 SIGN IN, H2S MEETING, Debb N
   MATT W., MIKE A and Brad G., and
   Wes (USA)

0825 SET UP FOR TR-32, TRACK HIG HYDRAULICS
   NOT WORKING, WES OUR MECHANIC
   TR-32 APPRO. 9' ABOVE GROUND
   RPM
   0-1'
   1-2'
   2-3'
   3-4'
   4-5'

0930 TRACK HIG MECHANIC NEEDED.
   DONE WITH HIG FOR THE DAY

[Signature]

12/9/08
344 Pumpd. Great, ANA
Sample:
0830 - 1st arrival 4 M44
Tailgate muddy & w/ water
4 Was from 36A
0845 - Set up @ TR-23
0850 - 36A delivers TR-23 0.1
TR-23 0.1: Height = 7.0' AGS
TR-23 0.1: Dark Brown
(7.5 YR 3/2) Silty clay
w/ abundant organic matter
including some leaves & grass.
Asphalt: masses present @
~20% soybean meal. Silty clay
is slightly moist, 25%.
Plastic: minor amount <5%
of fine to medium gravel
asphalt & organic sand.
Asphalt: masses are black
w/ minor organic in nature.
Asphalt: masses feature easily
dissolved asphalt with minor 4 in
glare. Bite & Light weight (5.6)
No other notes

Weather: cloudy, windy (15-25 m/h)
from S.) mild = 40°F -

TR-23 - 1-2': Same as above
w/ minor asphalt masses
@ ~40% soybean meal. Silty clay
w/ minor asphalt & leaf
TR-23 - 2-3': Silt 2 x 3 x 4".
0910: Sample collected
for laboratory analysis.
TR-23 3-4:"
TR-23 3-9, similar to above, material of uncertain fine to coarse, mixture, gravel. Asphalt matter appear to have some abundant organic matter (straw-like) to this depth.

0925, USA, green material back to origin.

TR-23 P.D. readings

<table>
<thead>
<tr>
<th>depth</th>
<th>PPM</th>
</tr>
</thead>
<tbody>
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<tr>
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<td>2.1</td>
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<tr>
<td>3-4</td>
<td>2.6</td>
</tr>
</tbody>
</table>

0930, USA. Begin @ TR-25

Est. soil height 5'4.65, silt sample @ 2-3.

TR-25 0:1, dark brown, silty clay with abundant organic matter, root tissue. Abundant asphalt material present. Asphalt material @ 7.5% - 80% of intended wet fuel @ 120 - 300% more fuel to cause quartz fines

Asphalt sample range from rocky gray to pebble to completely to the largest asphalt material present only when struck with hammer. Controlled fracture by asphalt mortar mixture of 9:7. Black asphalt material @ 4 to 50% organic matter. Angular stone, silty clay with organic in 3/4 to some plastic. Small piece (1/2" x 1/2") "minder" glass.

TR-25 1:2, 8:5% (1.54x0.48)

Silt clay with trace fines.
1.225 + 2.5 = 3.725 

(3.725 - 2.3) = 1.425

\section*{1020 - USA Please read:}

\section*{Sample for lab:}

\section*{Notes on experiments:}

\section*{Handwriting and calculations:}

\section*{Experiment results:}

\section*{Graphs and data:}
Back into pile of origin.

PID read: NCA TR-25

2-1
2-2
2-3

10.25 USA deep bucket then move into TR-25 USA for 4-5 more.

10.40 USA begin @ TR-25 and pile begins @ S 68°46' ASG. A.G.S. = About ground surface.

10.48 USA deliver TR-25 01.

TR-25 01: Brown (7.5YP 4/3)

Clayey sand w/ abundant fine to coarse, sub-rounded to angular to sub-rounded sand and fine to medium.

Abundant organic material including grass roots.

Abundant asphalt material top 6-7 ft. comprised of:

Fine granular (silt x clay) 70-80%
Fine to coarse sand 0-10-15%
Skeletal material 10-15%
Coarse sand < 5%

Clayey sand in dry w/ clear water, most plastic, moderately cohesive. One piece of metal wire in 1/4 x 1/8 noted.

Asphalt muck are range from pure w/ almost entirely asphalt material up to asphalt to mud to wood, gravel to sub-rounded sand, then some muck 50%. Some limestone gravel & 50% asphalt. Forensic in hand-picked w/ several pieces of bone, a little sand in edge when struck.
TK-28 - 1-2" Similar to asphalt made in measuring asphalt
mixture @ 40 - 50% of weight after measuring
from 1/4" wide grater.
Metal wire 1/4" x 8" noted
Asphalt mixture
Little glass-like gray
insoluble residue when
stirred. These asphalt
mixture are 90-100% black
asphalt & very light weight
with strong odor. Major
stiller & grain of hydration
odor.

TK-28 2-3" Brown clay
silt; 254R 1/3 w/ abundant
from a large angular to
sediment sand & gravel.
Sand coat plant matter &
dirt. Minor asphalt
material, mostly sand
in broken up. Some of
the asphalt in pisolite

and same in brand & present
with a knife. One
large asphalt mass 1' x 2'
right & finely back & formed.
This mass encompasses
70 - 80% asphalt mixture
w/ 20 - 30% fine & coarse
sand & minor sand & asphalt
< 50%.
Clayey silt noted above in
clay & some plastic

1100 - Sample collected for lab
@ TK-28 - 2-3'.

1150 - A place material
back into place at origin.

P's & TW - 25.2

0.1 0.8
1.2 426
2.3 2.9

120 - Set-up @ TK-28 est height
@ 6.0' A65.
TR-27 1-2' Similar to above w/ much finer material w/ minor
metal in mixture & dark
organic material. Deposit
"washed" metal string 3/4" x
1/2" asphalt rich for
both materials crumbled
40% - 60%, 10% dark
asphalt material.

TR-27 2-3'

- Similar to above w/
very fine grained black
sand mixture within some
of the asphalt mixture.

TR-27 3-4' Dark Brown 7-1/2 R
3/4" Silt w/ abundant
sand & gravel. Deposit
washed & have plating
slight hydraulic action.
Many small gravel
coarse & other places.
15.00 - AMA area TW-29

TW-29 0-1 Brown (7.59R 5/8)
silty clay w/marine fine to coarse
sandy gravel, substrand sand and fine to coarse gravel
Marine limestone cobbles
Drab, soft, slightly cemented, brown plastic, abundant
organic material, grey 4-6 cm
Softball matter is present about 10-15% of material
Softball matter reacts easily
Compacted of 95-96%, softball material less than 5% fine - mud grey sand
2-3' Same as previous
intercalated with dark organic
3-4' Similar to above
intercalated w/marine abundant
asphalt matter. Softball
matter - 40-50% of intercal

11:40 Collect lab sample TW-29 3.4
12:00 U.S.A. place natural back to pile of origin

TR-27 PID readings

PPM
0-1       0.6
1-2       0.7
2-3       0.6
3-4       20.4

12:15 Lunch off at 5:00
13:00 Return from lunch go to STF to load @ 7:30 9-5
Applikt van nicht eilig
wird kamimi at the ocean
w/ 90-95% of plaat mat
+ min 150
kristall
five times greater X
more moderate /0.2%
organism starts. This occurs.
Also one plantin sheep
wetted
Ur: 5 similar to above
interval w/ more absorbed
Applikt of tissue medium
50-60% of interval
1400 - let sample collected. TR: 29.9.5
1405 - USA place material
back to sheep
1415 - USA Decow
TR-29 P/ID Reauthorization

<table>
<thead>
<tr>
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<tr>
<td>3-4</td>
<td>0.7</td>
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</table>

14:55 - USA demochet
Their setup @ TR-30
14:50 - USA dechon TR-30 0-1
TR-30 0-1. Note bottom
(75 TR 312) always still
an, even after being plant
w/ abundant fruit in some
regular sand (kristall)
Standard applied medium.
Then period:
fruit = 70-80%
sand = 15%
guvel = 15%
Applikt - 20-30%
Most peas of 'in
mineral limited medium
More organism according
open + host material
1-2' - Similar to above
w/ slight increase in
Applikt material. Slight
Slight increase somewhat soft
breaking easily when stand w/
hammer. Replica bronze appears to be mixture of dark copper red & black argillite w mustard sand & gravel throughout. Typical suit also noted.

2-3" sample th. above w slight increase in moisture. Small piece of ground stone & moisture. 1/2 x 1/2" Nr. rod.

1450 - Lab sample collected @ TR-30 - 2-13.

PID reading @ TR-30:

<table>
<thead>
<tr>
<th>PPM</th>
<th>0.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-2</td>
<td>1.9</td>
</tr>
<tr>
<td>2-7</td>
<td>1.8</td>
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</tbody>
</table>

1600 - USA plow material back to pile of origin then driven before moving out. TR-31.

1515 - USA. Deliver TR-31.

TR: 31 - 0-1" Dark brown 7.5YR 2.5/2 clayey soil.

White bent argillite matrix with small quartz & feldspar. Slightly moist, slightly cohesive, moist plastic. One seed bush & 4 small pebbles.

One "shin" 1.5 x 3.5" diameter x 1/4" thick. Several of these metallic "shins" were piled on ground to e of TR-31 location. Nr. rod.

Moderate amount of argillite matrix.

2-30 - 45% of interval. Dark matrix is fairly hard w/ fine to mild gravel sand in matrix. One piece of paper 3/4" x 12" & handful of ground charcoal present.
1-2'. Similar to above
with less moisture (dry).
Metal steep 7 metal
clay 6" diameter x 7/8"
which was present.

Maine, Avg. Sphalerite
mixture @ 40-50% avg.
interval:

2-3': Bingham (7.5Y R, 2.5 Y)
5. City clay w/ structure.
2nd to coarse sand & gravel
frame + silt bound.
Sphalerite mixture w/ adsorbent @ 60-70% avg.
interval. Sphalerite +
more pebbles. Debris
also present with clay
plastic. Maine avg.

5.30. Collect lab sample
@ TH-31 2-3'

15:35 - Usn more water.
Back to origin.
El Dardo 12/10/08

8:15 - Drag #3 Mike and crew @ site
8:30 - H/V Style mat
8:45 - Set up @ AHA + R-32
9:46 - USA deliver AHA, TR-52, etc.
10:30 - Cablent Y/D. W/ is a butyric
10:35 - Begin logging. Est pilz

TR-32 0-10' Bem. (154 L, 462)
Silty clay w/ abundant roots
+ gravel. Deep, slightly colored
non-plastic, not sandy. Ming
pits to coarse angular sand.
Main: compact material @
<10% air void.

TR-32 1-2' Smaller to
above w/ massive clipshale
+ clipshale massive bottom
@ 155 L, 462
Lose oblique origin.

TR-32 2-3' Smaller in about
w/ mixture of massive, slight
mass and massive clipshale
material @ 30-40% air void
2.3 continued
Sediments were a
soft, grayish, to whitish
interbedded with minor
clayey, silt, and sand.
Also contain moderate
amount of humus over
fine to coarse gravel &
moderate organic

3-4 Similar to above

4.5 - Dark Brown (7.5 YR 3/2)
silty clay, slightly moist,
slightly calcareous, nonplastic.
No odor. Abundant humus.
sand & gravel fine to
coarse, angular, mixed
organic. Abundant
silt-clay, moisture
content 40-50%, and
without distinct
structure. Deposited
layered structure

1049 - Collect TR-32 (4.5')
Also collected 85 MS D's
Y. Duplicate @ the entrance
labeled TR-7B collected
at same time in other
but noted 11/10
at time for duplicate only.
MS (MS D) have same time & scale.
TR-32 P1D 2 ad 1/2 4
PM
0-1 0.0
1-2 0.0
2-3 0.0
3-4 0.0
4-5 0.2

1115 - USA place within back
to pile of origin.

1120 - USA rotate TR-33. Then
Prepare 7B-33 0-1' Ext.
pile departure @ 4' ABS.
TR-33. 0-1. Dark brown
(7.5 YR 3/2) silty clay,
slightly cohesive, slightly
moist; mm plants, mm
root, abundant plant matter
with grass & post. Thin
dark brown, peat, Union
series & gravel. Fine
gravel is angular to sub.
Distinctive limestone.
Moderate amount of angular
material @ <10%. of material.

1-2'. Similar to above w/
decrease in organic material
and increase in asphalt
material. Asphalt minus
organic - 38-40%. of
material & are unbroken
limestone sand/cement.

1150. Collect TR-33 1.0-3
Some white, TPH - 0.0,
Skinner Notes, SVAC's
BTEK.

1155. USA place material back
to origin.

TR-33 P10. Medici
0-1 - 0.0

2 = 0.0

0.8
1205 - 0.84 cubic feet
back of pile.

1210 - Launch of Z-1 site.

1300 - Return to 
USA debris bucket.
then set 7 @ TR-34.

1315 - USA debris. TR-34 0-11
Est. pile height @ TR-34. 5’ AOS

TR-34 0-1 - Darla Brown
(7:34 R 3/12). Self check,
slightly moist, slightly eroded
ven plast, moderate root
fragments, mud < 25% sand,
+ gravel (claystone) on
mud. < 10% asphlct
material. No odor.

1.2 - Similar to 1-1
w/ decreasing organic
+ increase in asphlct
material @ 1.2 - 2.5’. Dry
asphlct. no clay, 0
from soft + rubber

In hand wr concrete fracture
upon striking w/ hammer
asphlct core had minor
organic, fine to medium
grain. fracture Pavel
< minor < 5% sand.

2-3’ Similar to 1-1 w/ moisture
in asphlct. material @ 40-50%
organic.

1325 - Collect 1st sample
TR-34 2-3’

1335 - USA pile material
back to origin.

1345 - PIDS @ TR-34

1350 - USA pandemic on TR-35
pile height < 5’ AOS

<table>
<thead>
<tr>
<th>TR</th>
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<tbody>
<tr>
<td>0-1</td>
<td>1.2</td>
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<tr>
<td>1-2</td>
<td>2.4</td>
</tr>
<tr>
<td>2-3</td>
<td>1.8</td>
</tr>
</tbody>
</table>
1-2 continued
Fine to coarse granular sand rounded to angular also more abundant than interbed
Main organics. No odor. Slightly moist.

2-3. Similar to above
- No w/messiery of asphalt material C-70-80%
- Asphalt material fairly large, breaking off substance
- No w/mussiery. Asphalt comprised of 95% sand
- Asphalt fine to coarse sand, not angular to sub-rounded sand.

1350 - Lab sample collected
@ TR 35 2-3

1400 - USA glass material
back to china
1405 - PID @ TR 75

0-1  2-1
1-2  1-2
2-3  1-7

1425 - 15A piece made
back into pile of origin

1430 - USA deliver TR 36-0-1

TR 36-0-1 Brown 7.5yr 4.2

clayey silt. clay. non
compactable material
very slow. standard free
to coarse angular to
soft rounded sand. abundant
fine to coarse material
ground up minor amount
of limestone cobbles. one
and stone also present
Black asphylxy material abundant
20-30%

2-3 Similar to above 11
more rubble with sub-read
brick pieces & repose
brick pieces. also minor
plaster (both hard & soft)
3-4. Block (7.5 yr 2.5/1)
Dirt gravel, w/Clay content
Fine to coarse sand
Gravel in fine gravel
D/Max = 75", diameter
Silt angular to sub-rounded
When broken open, gravel is pale yellow (7.5Y 7/3)
In color: Dry, W2.0 star
Dirt, ledge, are gravelly.

Gravel = 50-60%
Asphalt = 40-50%
Fine = 10-20%

1430 - Lat sample collection
@ TK-36-3-4'

1500 - TK-36 PID ready.

PPM
0-1' 1.3
1-2' 0.6
2-3' 0.8
3-4' 2.6

1505 - USA placed material
Push into pile of origin
1510 - MWH clean up AHA
Sample area.
1530 - To admin building to pack sample
165 - To 5TP to check on
    trailer. Assert w/mud
    techs to get to
    location TK-89
1700 - Leave site

12/10/89