

## Bratcher, Mike, EMNRD

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**From:** Ben J. Arguijo <bjarguijo@basinenv.com>  
**Sent:** Tuesday, October 22, 2013 10:40 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** North Indian Flats 26 Fed. #1 (2RP-1624)  
**Attachments:** NIF\_FieldSketch.pdf; NIF\_Trenches\_Aerial.jpg

Mike,

On 10/3/2013, Jody Walters, Tony Savoie, and I met with you to discuss (among other things) the work plan for the BOPCO release site known as North Indian Flats 26 Federal #1 (NMOCD Reference #2RP-1624). While the field work has been completed (including the installation of a polyurethane liner), there has been an unfortunate mix-up in regard to sample submission, as well as a communication error related to three (3) of the delineation trenches (D, E & G) advanced at the site. I have attached a crude field sketch and an aerial showing the approximate locations of the trenches. I apologize, but I have not had time to put together a proper map of the location.

Trench D is to the south of the excavation, near the on-site produced water tank. We have a lab sample collected from the trench at 6' bgs with a chloride concentration of 3,160 mg/kg, but we have field-screen results at 8' and 10' that are 204 and 260 mg/kg, respectively. Obviously, the wrong sample was submitted to the lab. However, the 8' and 10' samples were evidently dumped out at the site on the day of collection, so we can't submit them for analysis. Will the field-screen results be sufficient since this is a risk-based closure, or do we need to attempt to collect an additional sample below the liner at 8' - 10' bgs to submit for laboratory analysis?

Trench E is in the area between the on-site produced water tank and heater treater. A sample collected at 10' bgs was submitted to the lab for analysis and showed a chloride concentration of 1,650 mg/kg. We can demonstrate a "downward trend", as the field-screen at 6' bgs was 3,764. Is this sufficient, or will we need to advance a soil boring at/near this location to delineate below 1,000 mg/kg (or less)?

Trench G is in the northwestern portion of the excavation, near an active pipeline bordering the release to the north. We have no lab results from this trench due to a miscommunication in the field. Field-screens were 3,764 mg/kg at both 6' and 8' bgs. Floor samples (B#1, B#2, and Floor #2) collected nearby (see attached field sketch) were submitted to the laboratory for analysis and demonstrated chloride concentrations below 1,000 mg/kg. The nearest sample, B #2, had a chloride concentration of 96.0 mg/kg. That said, will we need to advance a soil boring at/near the location of Trench G?

When reviewing this information, please keep in mind that the depth to water at this location is approximately 135' - 140'.

I will give you a call to discuss this matter later today.

Thanks for your time.

Respectfully,  
Ben J. Arguijo

Ben J. Arguijo  
Project Manager

Basin Environmental  
3100 Plains Hwy.  
P.O. Box 301  
Lovington, NM 88260  
p:(575)396-2378 m:(806)549-9597  
f:(575)396-1429  
[bjarguijo@basinenv.com](mailto:bjarguijo@basinenv.com)

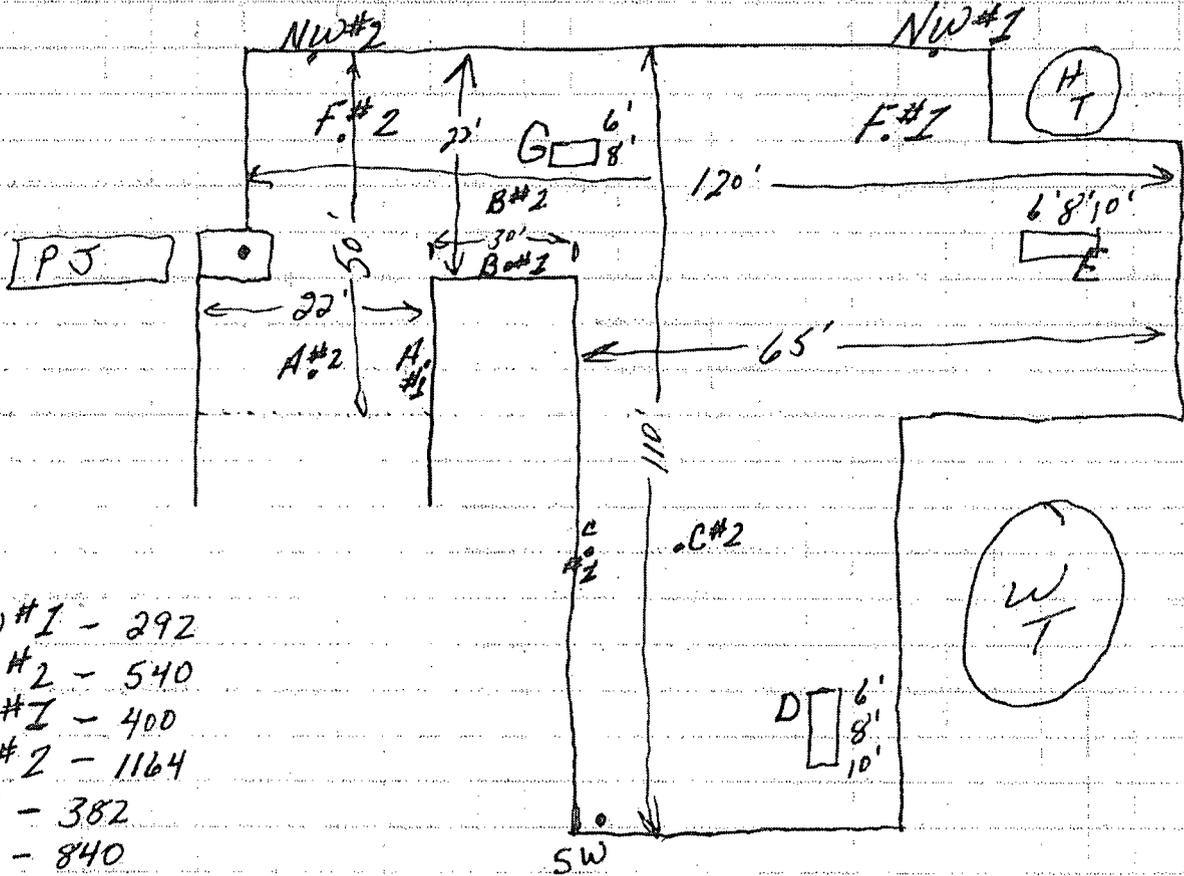
P.O. Box 301  
 Lovington, NM 88260

**Basin Environmental**  
  
 Effective Solutions  
**Service Technologies**  
 Email: sales@basinenv.com

Office: 575-396-BEST  
 (2378)

Fax: 575-396-1429

110' x 80' Liner



- NW#1 - 292
- NW#2 - 540
- Floor#1 - 400
- Floor#2 - 1164
- A-#1 - 382
- A-#2 - 840
- B-#1 - 488
- B-#2 - 1456
- C-#1 - 204
- C-#2 - 292

D	E	G
6' - 2552	6' - 3764	6' - 3764
8' - 204	8' - 2552	8' - 3764
10' - 260	10' - 2552	

## Bratcher, Mike, EMNRD

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**From:** Ben J. Arguijo <bjarguijo@basinenv.com>  
**Sent:** Tuesday, October 22, 2013 10:45 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** Re: North Indian Flats 26 Fed. #1 (2RP-1624)  
**Attachments:** North Indian Flats\_Soil Chemistry Table.pdf

Mike,

I neglected to attach a soil chemistry table to my previous message. Sorry about that.

Ben

Ben J. Arguijo  
Project Manager  
Basin Environmental  
3100 Plains Hwy.  
P.O. Box 301  
Lovington, NM 88260  
p:(575)396-2378 m:(806)549-9597  
f:(575)396-1429  
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On Tue, Oct 22, 2013 at 10:40 AM, Ben J. Arguijo <[bjarguijo@basinenv.com](mailto:bjarguijo@basinenv.com)> wrote:  
Mike,

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f:(575)396-1429  
[bjarguijo@basinenv.com](mailto:bjarguijo@basinenv.com)

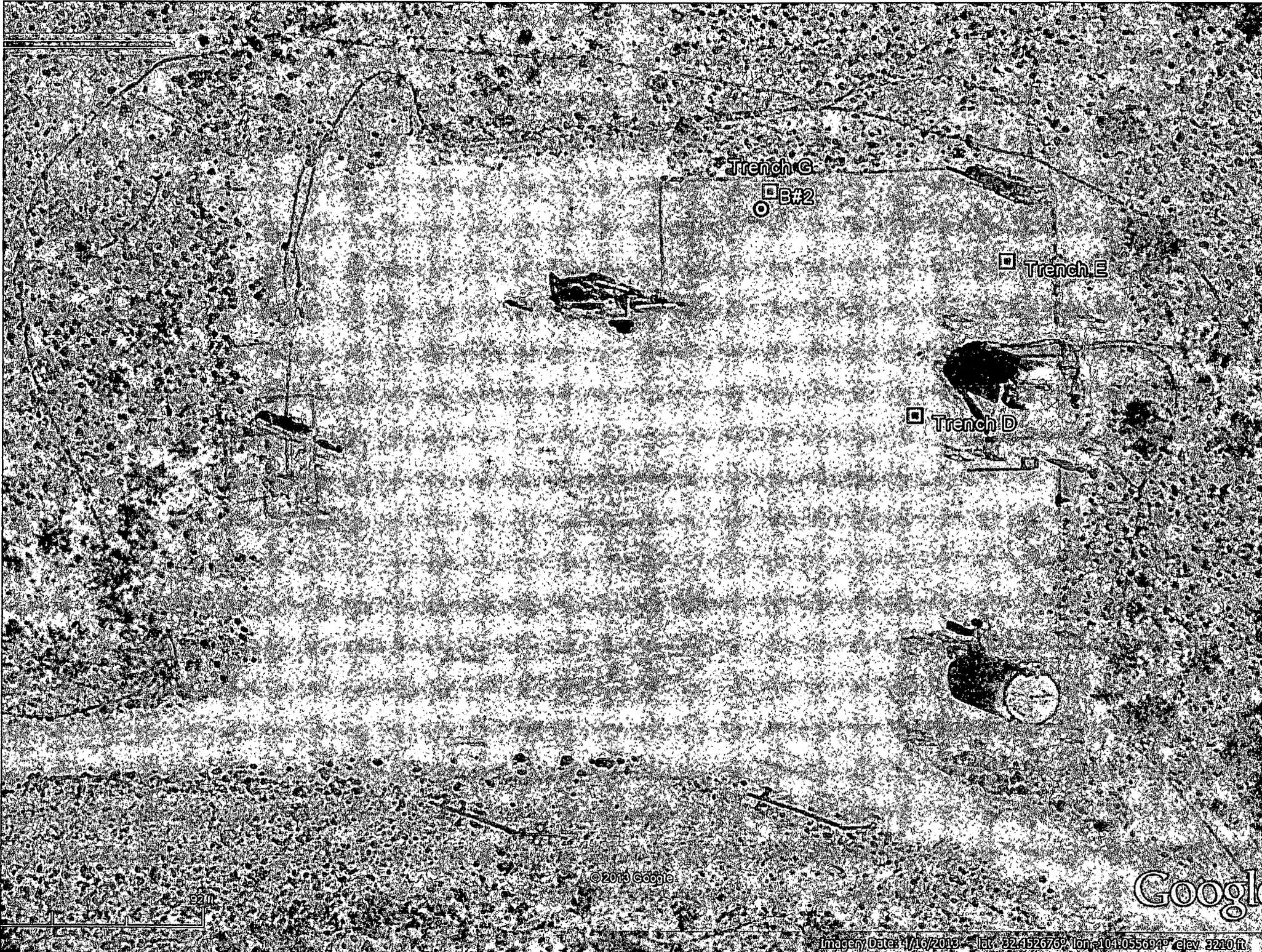
**TABLE 1  
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**

**BOPCO, LP  
NORTH INDIAN FLATS 26 FEDERAL #1  
EDDY COUNTY, NEW MEXICO  
NMOCD REFERENCE #: 2RP-1624**

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	4500 Cl-B CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)		
HA-1 @ 3'	3'	7/29/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	4,560
HA-3 @ 3'	3'	7/29/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	576
HA-4 @ 3'	3'	7/29/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	2,680
HA-6 @ 3'	3'	7/29/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	160
North Wall #1	2.5'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	208
North Wall #2	2.5'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
Floor #1	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	192
Floor #2	3'	10/8/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	848
A #1	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	240
A #2	3'	10/8/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	1,650
B #1	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	720
B #2	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	96.0
C #1	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0
C #2	3'	10/8/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
South Wall	2.5'	10/10/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	80.0
D @ 6'	6'	10/10/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,160
E @ 10'	10'	10/10/2013	In-Situ	<0.050	0.0658	<0.050	<0.150	0.0658	<10.0	<10.0	<10.0	<10.0	1,650
<b>NMOCD Criteria</b>				<b>10</b>					<b>50</b>			<b>5,000</b>	<b>1,000</b>

- = Not analyzed.

2RP-1624



Trench C

B#2

Trench E

Trench D

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Imagery Date: 4/16/2013 Lat: 32.452676° Lon: -104.055694° Elev: 3210 ft

2RA-1624

10/3/2013

Meeting w/ BOPE

Tommy Swartz Today Wilkins

Bar w/ Brian Aguirre

Bas 10 Fed 1 30 015-24813

Final Reclamation Documents

ARP-1624 - started epc yesterday  
EPC reported Ave. AH-1 - AH-6  
Then complete delineation  
Crest to go -

ARP-981 Bas 3 Fed Well #4 spill site "B"

Closure Report & Final C-141

including Gw Monitoring Also - Approval

draft work portion w/ CAR regarding

separate closure for GW portion

First Tranche closure so they can

go to SF to get the GW closed -  
CAR Ban when closed

ARP-1037 Ins 6 Final C-141  
closure report

ARP-1659 Closure Report Final C-141