

**CORRECTION(S) TO WATER WELL RECORD (WWC-5)**

(to rectify lacking or incorrect information)

County: Crawford

Location listed as:

Section-Township-Range: 19-30-(35E)

Fraction (  $\frac{1}{4}$   $\frac{1}{4}$   $\frac{1}{4}$  ): \_\_\_\_\_

Location changed to:

19-30-25E

SW SE NE

Other changes: Initial statements: \_\_\_\_\_

Changed to: \_\_\_\_\_

Comments: \_\_\_\_\_

verification method: Site location in Pittsburg, County map

initials: DLA date: 7/30/07

submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3726  
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.





**RECORD OF SUBSURFACE INVESTIGATION**

BORING IDENTIFICATION: SB-016  
PAGE 1 OF 1

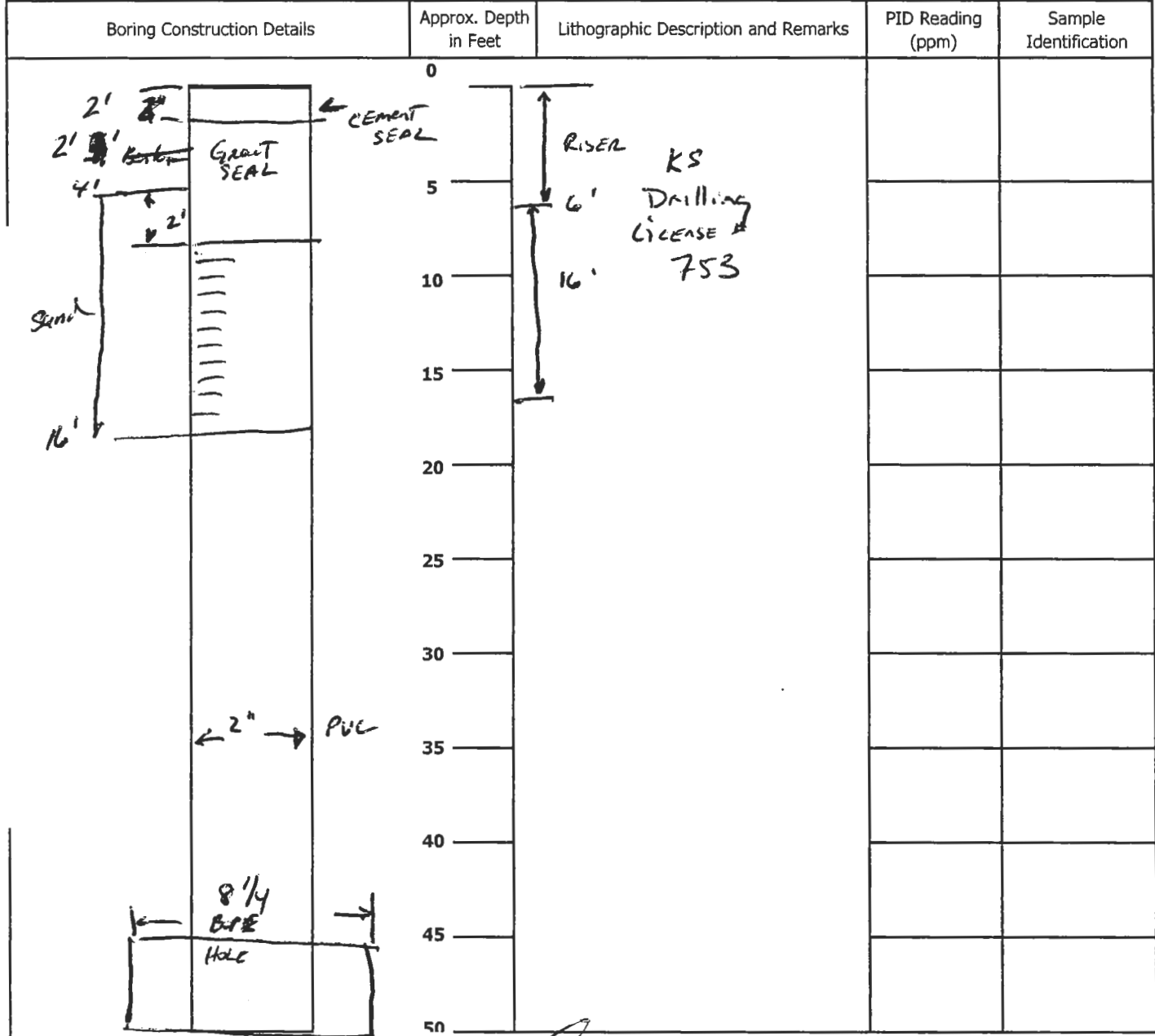
CLIENT: Metso Minerals  
PROJECT NAME: Voluntary Cleanup Investigation  
SITE LOCATION: Pittsburg, KS  
DRILLING LOCATION:

PROJECT NUMBER: JG0073.323  
DATE DRILLED: 1/04/2007  
ELEVATION:  
DRILLING METHOD: Geoprobe

GEOLOGIC DESCRIPTION	FT	No	REC%	TPV (ppm)	COMMENTS
Gravel 0.5 inch, poorly sorted	1	0-2	70		AME S-061 @ 1'
Orange poorly sorted sandy gravel	2				
Dark red clay	3	2-4			AME S-062 @ 4' AME S-063 @ 4' Duplicate
	4				
Tan brown clay	5	4-6			
Tan brown clay	6				
Hard clay coal mixture	7	6-8	60		
	8				
Coal silt compacted hard	9	8-10			AME S-064 @ 10'
	10				
<i>Tan/Gray clay</i>	11	10-12	45		Refusal @ 11'
	12				
<i>Tan/Gray STREAKS of Orange clay</i>	13	12-14			
	14				
<i>Sand Stone 15'-16' SET WELL @ 16'</i>	15	14-16			
	16				
	17	16-18			
	18				

- \* = Sample Submitted for Analysis
- No = Sample Number
- FT = Stratum Depth in Feet Below Grade
- ppm = Parts Per Million
- REC = Percent of Total Sample Recovered
- TPV = Total Photoionizable Vapors

ST#	<b>SOIL BORING LOG</b>		BORING NUMBER 1-8
R#	OVERSEEING GEOLOGIST	DRILLER XDS / Environmental work	
SITE NAME Former Grandby Mining	DRILLING METHOD Geoprobe	SAMPLING METHOD Geoprobe macrocore	
SITE ADDRESS 1308 N. Walnut Pittsburg KS	BOREHOLE DIAMETER 8.25"	SAMPLING INTERVAL Continuous	
DATE OF BORING 6-18-07 - 6-21-07	TOTAL BORING DEPTH 16'	STATIC WATER LEVEL Approx 7'	

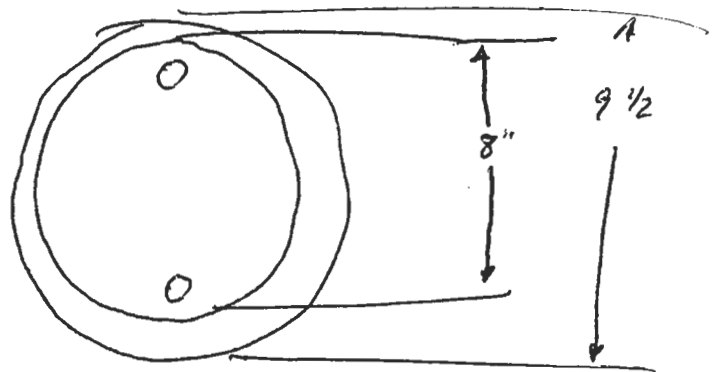
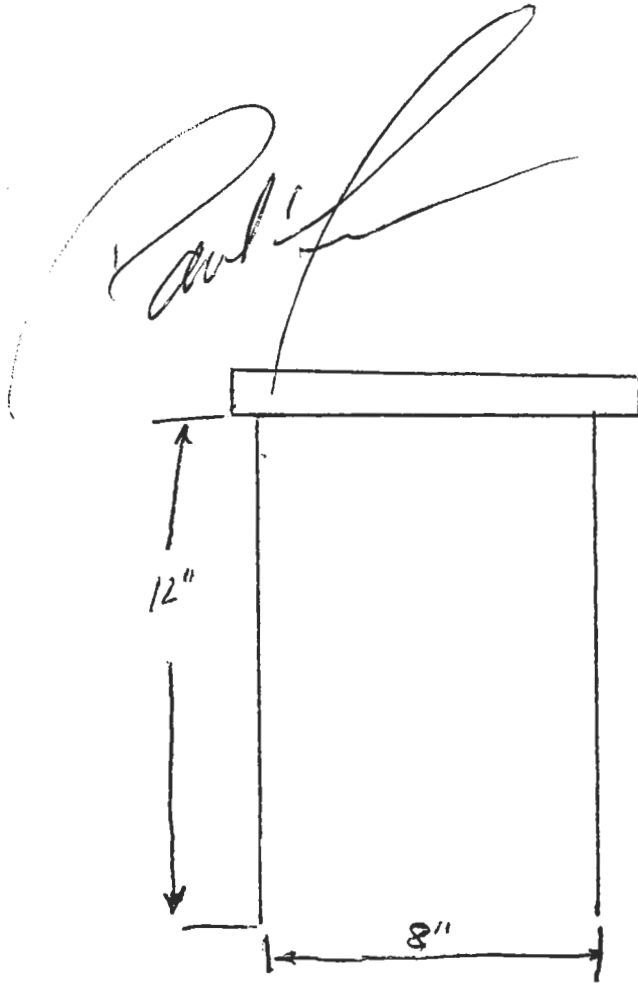


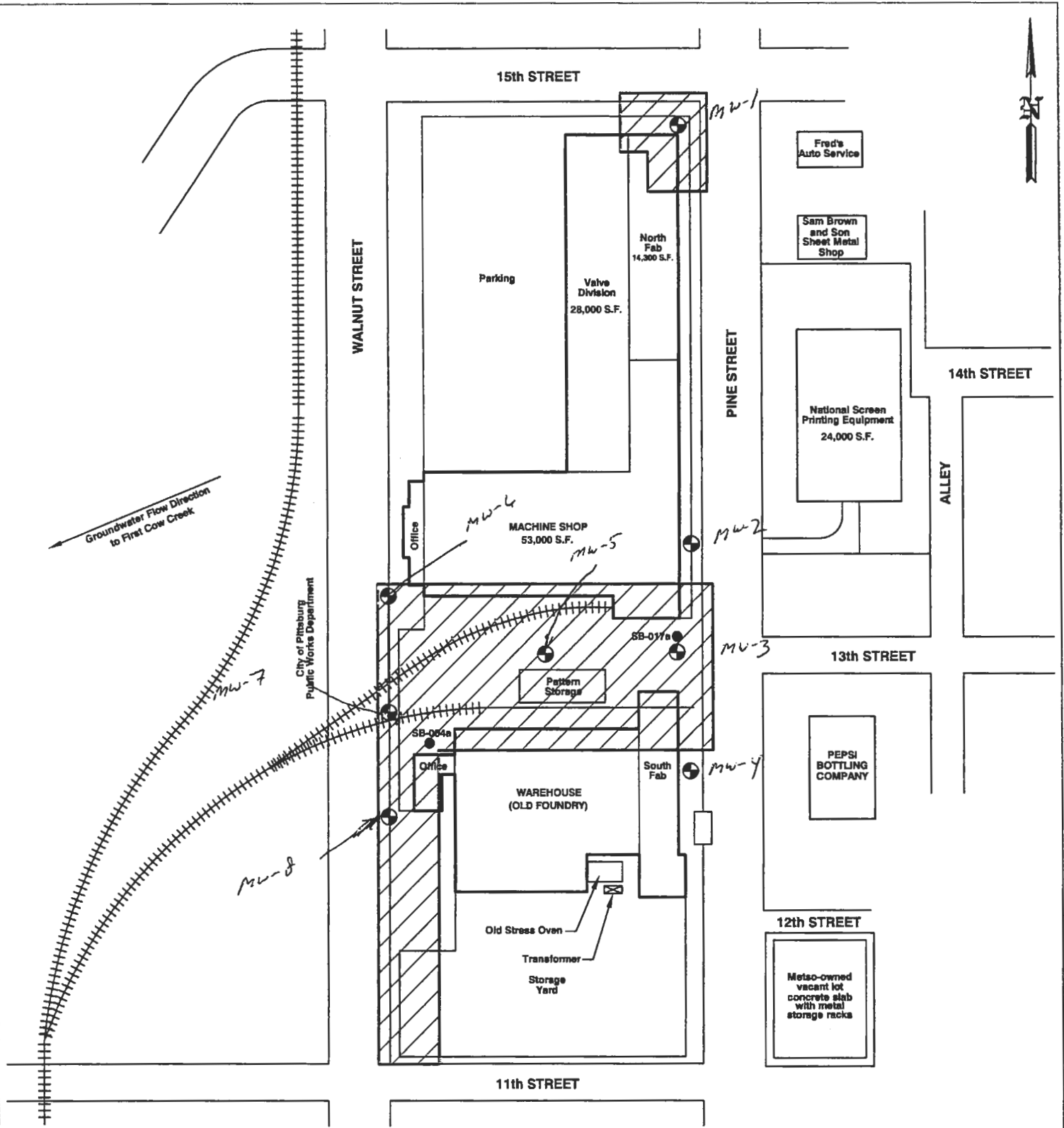
COMMENTS:

- |           |      |        |
|-----------|------|--------|
| Limestone | Silt | Sand   |
| Sandstone | Clay | Soil   |
| Chert     | Sand | Gravel |



8" x 12" Manhole with watertight gasket,  
EMi (manufacturer)








Groundwater Flow Direction  
to First Cow Creek

City of Pittsburgh  
Public Works Department

**LEGEND**

-  PROPOSED EXTENT OF NO FURTHER ACTION DETERMINATION
-  SOIL BORING LOCATIONS
-  PROPOSED GROUNDWATER MONITORING WELL LOCATIONS



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LANCASTER, PA 17603 (717) 399-9587  
(717) 399-5493 FAX

**August Mack**  
ENVIRONMENTAL

METSO MINERALS INDUSTRIES, INC.  
1308 N. WALNUT STREET  
PITTSBURG, KANSAS

**SITE PLAN 2**

PROJECT No.: JG0020.333	FILENAME: K\AMEPS\PG0048.333\Sito Plan2	DATE: 05/15/2007
DRAWN BY: ZWG	SCALE: AS SHOWN	FIGURE: <b>2</b>