

**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

ML-6

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

**1 LOCATION OF WATER WELL:** County: Cherokee Fraction SW 1/4 SE 1/4 NE 1/4 Section Number 19 Township Number T 30 S Range Number R 35 EW

Distance and direction from nearest town or city street address of well if located within city? EAST OF Walnut APPROX 2000 FT South of 15th AVE

**2 WATER WELL OWNER:** MERSO Minerals Industries Inc  
 RR#, St. Address, Box # : 240 Arch St. P.O. Box 17312  
 City, State, ZIP Code : Topeka PA 17405-7312

Global Positioning Systems (decimal degrees, min. of 4 digits)  
 Latitude: \_\_\_\_\_  
 Longitude: \_\_\_\_\_  
 Elevation: \_\_\_\_\_  
 Datum: \_\_\_\_\_  
 Data Collection Method: \_\_\_\_\_

**3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:**

N

--NW--		--NE--	
			<b>X</b>
--SW--		--SE--	

S

**4 DEPTH OF COMPLETED WELL** ..... 16 ..... ft.

Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.  
 WELL'S STATIC WATER LEVEL... 3.11 ..... ft. below land surface measured on mo/day/yr.....  
 Pump test data: Well water was.....ft. after..... hours pumping..... gpm  
 Est. Yield.....gpm: Well water was.....ft. after..... hours pumping..... gpm  
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well  
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)  
 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well

Was a chemical/bacteriological sample submitted to Department? Yes ..... No ; If yes, mo/day/yr  
 Sample was submitted..... Water well disinfected? Yes ..... No

**5 TYPE OF CASING USED:** 1 Steel 3 RMP (SR) 5 Wrought Iron 8 Concrete tile CASING JOINTS: Glued..... Clamped.....  
2 PVC 4 ABS 7 Fiberglass 9 Other (specify below) Welded.....  
 Threaded.....

Blank casing diameter ..... 2 in. to ..... 6 ft., Diameter. .... in. to ..... ft., Diameter ..... in. to ..... ft.  
 Casing height above land surface..... 0 in., Weight.....lbs./ft. Wall thickness or gauge No. ....

**TYPE OF SCREEN OR PERFORATION MATERIAL:** 1 Steel 3 Stainless Steel 5 Fiberglass 7 PVC 9 ABS 11 Other (Specify) .....  
 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole)

**SCREEN OR PERFORATION OPENINGS ARE:** 1 Continuous slot 2 Mill slot 5 Gauzed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole)  
 2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw Cut 10 Other (specify) .....

**SCREEN-PERFORATED INTERVALS:** From..... 6 ..... ft. to ..... 16 ..... ft., From ..... ft. to ..... ft.  
 From..... ft. to ..... ft., From ..... ft. to ..... ft.

**GRAVEL PACK INTERVALS:** From..... ft. to ..... ft., From ..... ft. to ..... ft.  
 From..... ft. to ..... ft., From ..... ft. to ..... ft.

**6 GROUT MATERIAL:** 1 Neat cement 2 Cement grout 3 Bentonite 4 Other .....

Grout Intervals: From ..... 2 ..... ft. to ..... 4 ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

What is the nearest source of possible contamination:  
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide Storage 16 Other (specify below)  
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well  
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well

Direction from well? ..... How many feet? .....

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
		SEE ATTACHE BORING LOG SB-004			

**7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 6-20-07 and this record is true to the best of my knowledge and belief.  
 Kansas Water Well Contractor's License No. 753 This Water Well Record was completed on (mo/day/year) 6-22-07  
 under the business name of Environmental Works By (signature) [Signature]

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. Visit us at <http://www.kdhe.state.ks.us/geo/waterwells>.



**RECORD OF SUBSURFACE  
INVESTIGATION**

BORING IDENTIFICATION: SB-006  
PAGE 1 OF 1

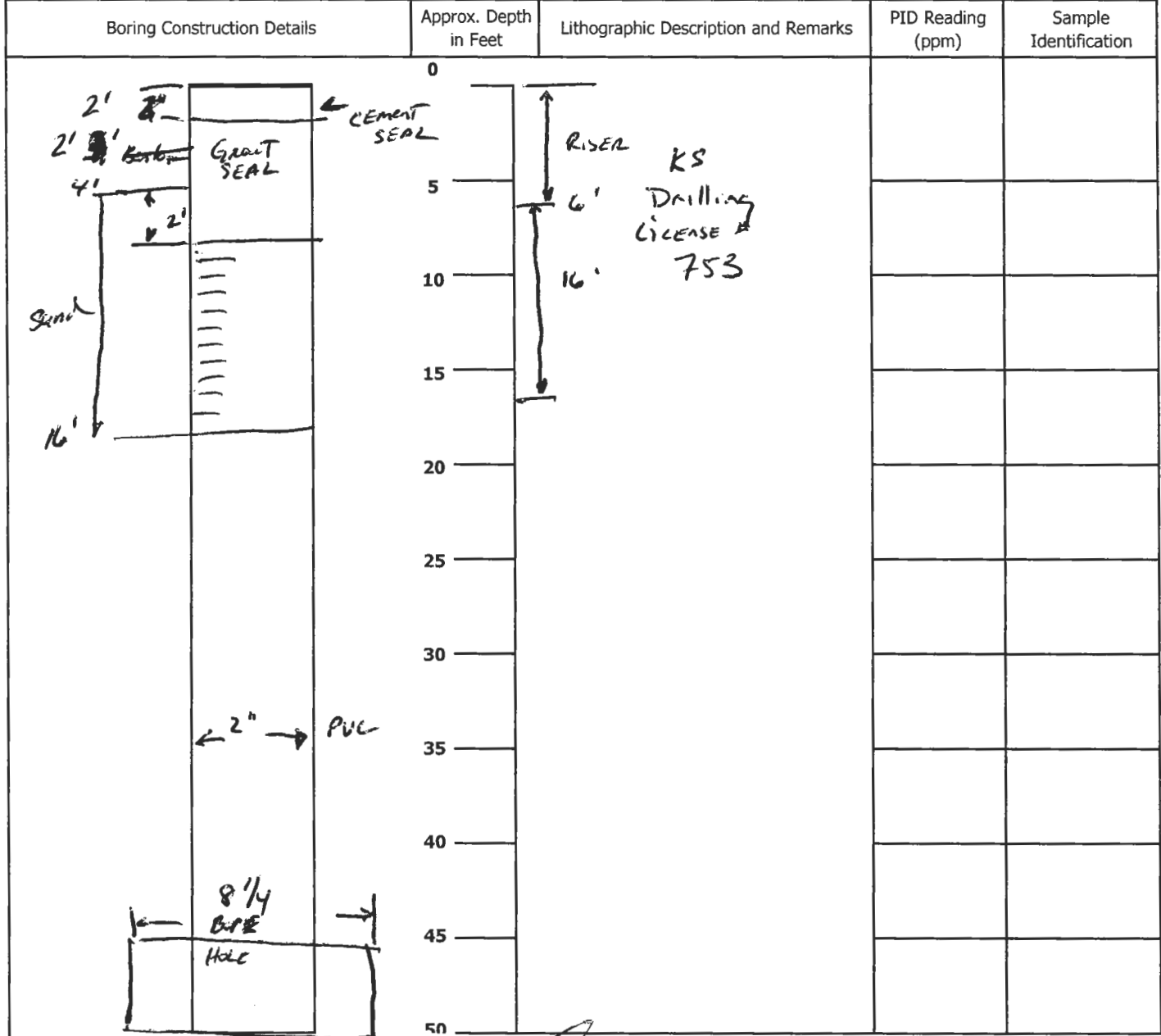
CLIENT: Metso Minerals  
PROJECT NAME: Voluntary Cleanup Investigation  
SITE LOCATION: Pittsburg, KS  
DRILLING LOCATION:

PROJECT NUMBER: JG0073.323  
DATE DRILLED: 1/03/2007  
ELEVATION:  
DRILLING METHOD: Geoprobe

GEOLOGIC DESCRIPTION	FT	No	REC%	TPV (ppm)	COMMENTS
Gray/orange clay	1	0-2			AME S-022 @ 1'
	2				
	3	2-4			
	4				
	5	4-6			
Gray black moist clay	6	6-8			AME S-023 @ 7'
	7				
Black coal, wet	8	8-10			AME S-024 @ 10'
	9				
	10				
<i>Gray / tan clay</i>	11	10-12			Hit groundwater @ 10' AME GW-004 collected with 0.45 micron filtration
	12				
<i>Gray / tan clay</i>	13	12-14			
	14				
<i>Sand stone @ 15' - 16'</i> <i>WET SET @ 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 P. Hsberg 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'	

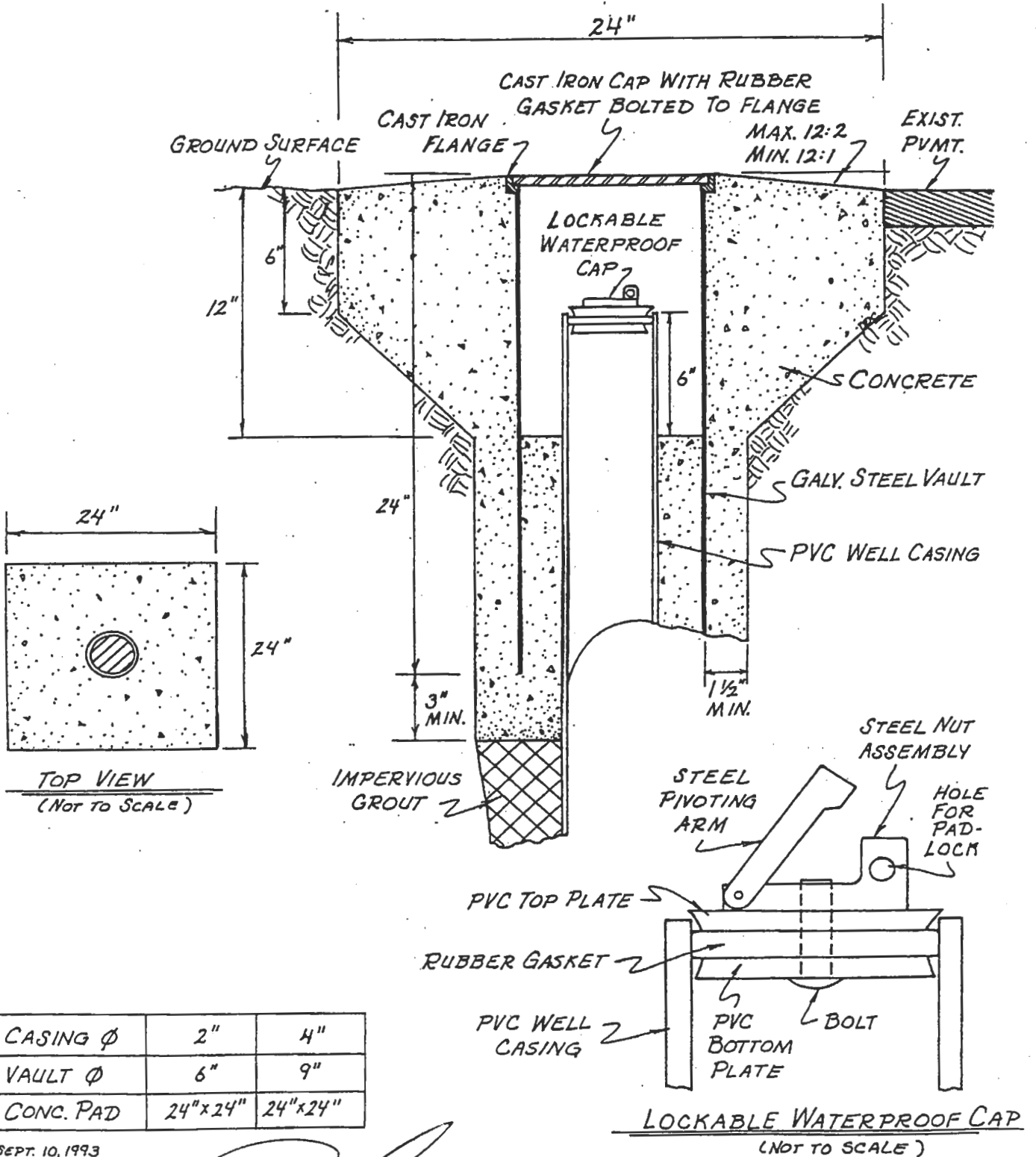


COMMENTS:

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

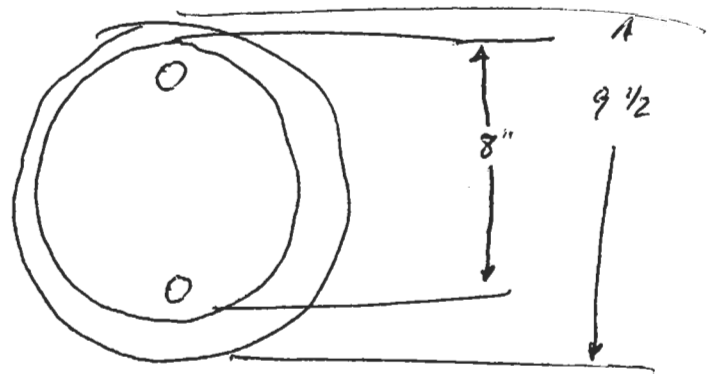
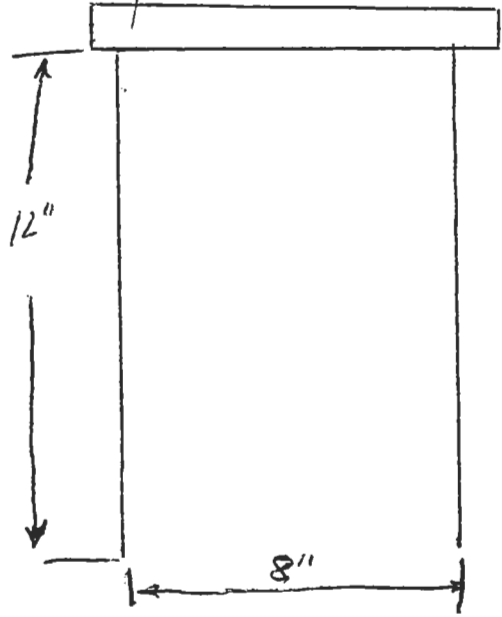
# FLUSH-MOUNT WELL CONSTRUCTION DETAIL

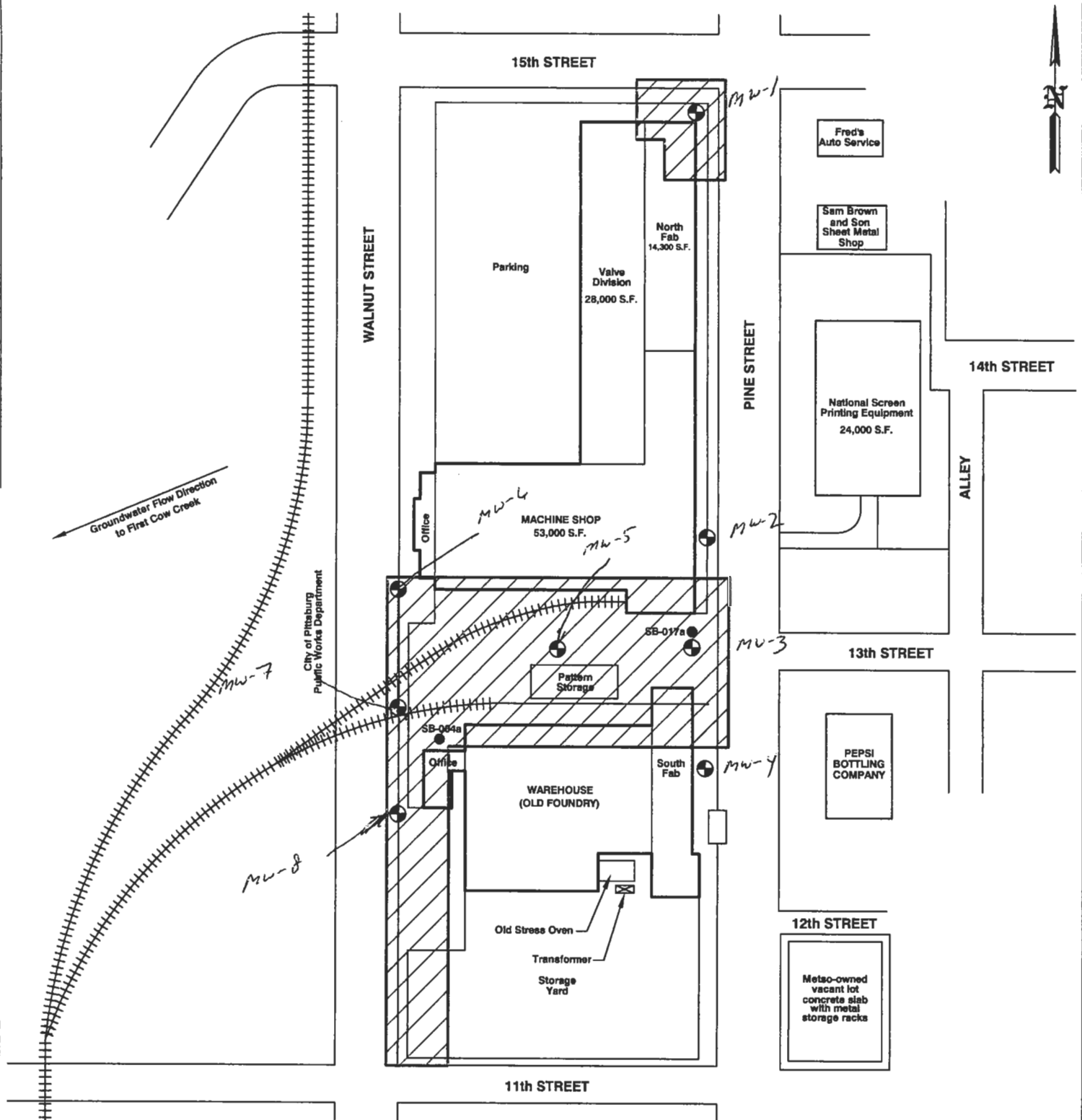
(NOT TO SCALE)



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

*Paul*





Groundwater Flow Direction  
to First Cow Creek

City of Pittsburg  
Public Works Department

MW-7

MW-8

MW-4

MW-5




MW-2

MW-3

MW-1

MW-4

**LEGEND**

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



841 WHEATLAND AVE. SUITE 202 (717) 398-9587  
LANCASTER, PA 17603 (717) 398-5493 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\Site Plan2	DATE: 05/15/2007
DRAWN BY: ZWG	SCALE: AS SHOWN	FIGURE: 2