

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.

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

mw-8

1 LOCATION OF WATER WELL: County: Crawford 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? 35 FT EAST of Walnut / 2150 South of 18th Global Positioning Systems (decimal degrees, min. of 4 digits)

2 WATER WELL OWNER: METSO Minerals Industries Inc RR#, St. Address, Box #: 240 Arch St. PO Box 17312 City, State, ZIP Code: York PA 17405-7312

3 LOCATE WELL'S LOCATION WITH AN 'X' IN SECTION BOX: [Diagram showing a 3x3 grid with 'X' in the center-right cell] 4 DEPTH OF COMPLETED WELL: 16 ft. WELL'S STATIC WATER LEVEL: 3.6 ft. below land surface measured on mo/day/yr.

5 TYPE OF CASING USED: 1 Steel, 2 PVC, 3 RMP (SR), 4 ABS, 5 Wrought Iron, 6 Asbestos-Cement, 7 Fiberglass, 8 Concrete tile, 9 Other (specify below), CASING JOINTS: Glued, Clamped, Welded, Threaded.

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

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

SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot, 2 Louvered shutter, 3 Mill slot, 4 Key punched, 5 Guazed wrapped, 6 Wire wrapped, 7 Torch cut, 8 Saw Cut, 9 Drilled holes, 10 Other (specify), 11 None (open hole)

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

GRAVEL PACK INTERVALS: 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, 2 Sewer lines, 3 Watertight sewer lines, 4 Lateral lines, 5 Cess pool, 6 Seepage pit, 7 Pit privy, 8 Sewage lagoon, 9 Feedyard, 10 Livestock pens, 11 Fuel storage, 12 Fertilizer Storage, 13 Insecticide Storage, 14 Abandoned water well, 15 Oil well/gas well, 16 Other (specify below)

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

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, PLUGGING INTERVALS. Entry: SEE ATTACHED casing log SB-003

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) 6-22-07 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/gso/waterwells.



**RECORD OF SUBSURFACE
INVESTIGATION**

BORING IDENTIFICATION: SB-003
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
Dark brown and red clayey silt	1	0-2	90		AME S-009 @ 1'
	2				
	3	2-4			
	4				
Light brown weathered shale with some clay	5	4-6	90		AME S-010 @ 5' AME S-011 Duplicate
	6				
	7	6-8			
	8				
Reddish tan clay	9	8-10	95		AME S-012 @ 10'
	10				
Tan/gray clay	11	10-12			
	12				
<i>Tan/gray clay .5 foot cont @ 14.5' Tan/gray clay to 16' WELL SET MW-8</i>	13	12-14			Hit groundwater @ 12' AME GW-001 @ 12' collected with 0.45 micron filtration
	14				
	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

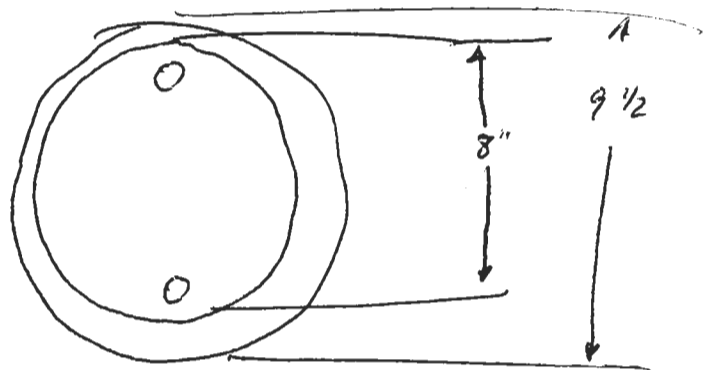
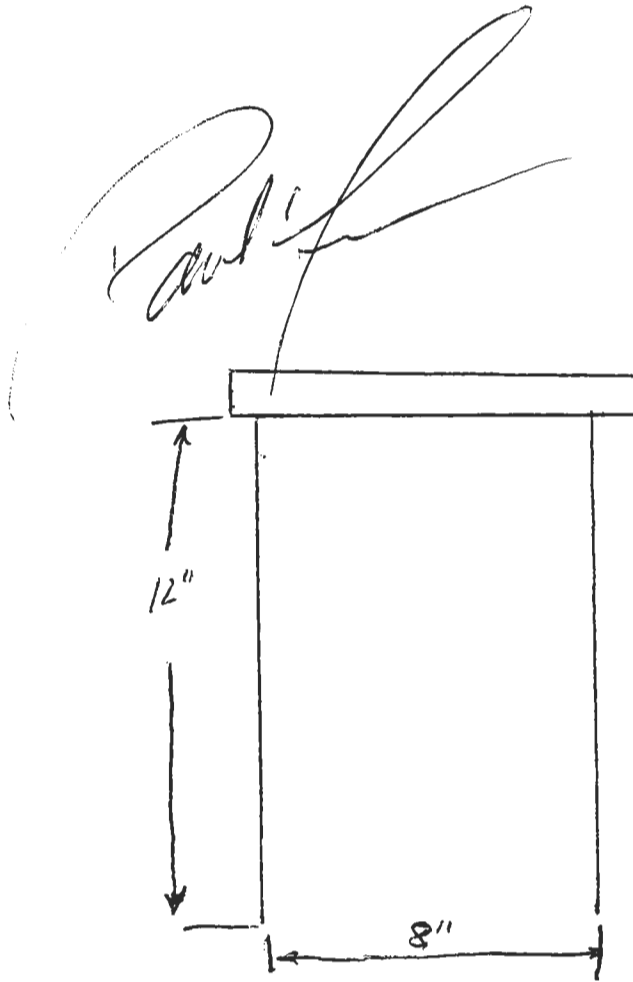
ST#	SOIL BORING LOG		BORING NUMBER <i>1-8</i>
R#	OVERSEEING GEOLOGIST	DRILLER <i>XDS / Environmental work</i>	
SITE NAME <i>Former Grandby Mining</i>	DRILLING METHOD Geoprobe	SAMPLING METHOD Geoprobe macrocore	
SITE ADDRESS <i>1308 N. Walnut Pittsburg Ks</i>	BOREHOLE DIAMETER <i>8.25"</i>	SAMPLING INTERVAL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

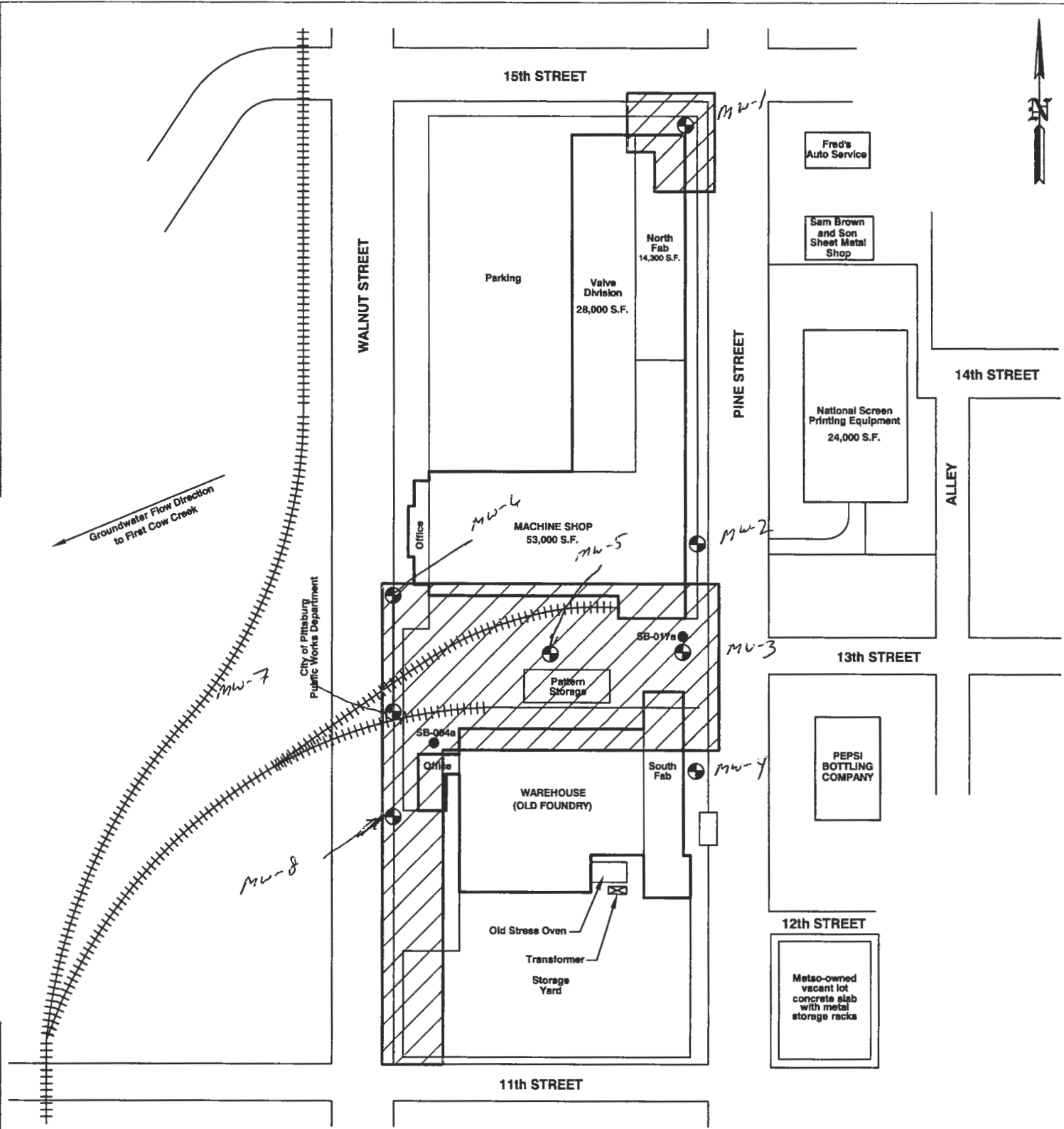
Boring Construction Details	Approx. Depth in Feet	Lithographic Description and Remarks	PID Reading (ppm)	Sample Identification
	0 5 10 15 20 25 30 35 40 45 50	RISER KS Drilling LICENSE # 753		

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) 399-0567
(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\FG0048.333\Site Plan2	DATE: 05/15/2007
DRAWN BY: ZWG	SCALE: AS SHOWN	FIGURE: 2