John Strang - Boiler Room well decommissioning - Site # 413013

From: "James Mickam, PG" <jmickam@jtmllc.com>
To: "Strang, John" <jrstrang@gw.dec.state.ny.us>
Date: 10/30/2012 3:38 PM
Subject: Boiler Room well decommissioning - Site # 413013
CC: "Joe Bianchi" <jbian@amphenol-aao.com>, "Chris Doroski" <cmd16@health.st...
Attachments: Fig 1.pdf; Tbl 1 - Wells for Decommissioning.pdf

John,
As we discussed last week during our meeting, Amphenol proposes to decommission several ground water monitoring wells at the Boiler Room site (Site # 413013). The following is our proposed plan for completing this effort.

Figure 1 (attached) illustrates the location of ground water monitoring wells at the site. The wells proposed for decommissioning are located at the far east end of the property, greater than 1000 feet cross gradient from the Boiler Room remedial system. As documented in previously submitted reports, drilling logs indicate the first 30 feet below ground level of the site's stratigraphy is composed of permeable sediments, largely sand and gravel, of glacial outwash and recent alluvial origin. Ground water occurs between 10 and 14 feet below ground level.

Table 1 provides a summary of the wells proposed for decommissioning. Wells are between 20 to 25 feet deep and installed in the first encountered ground water. They are 2-inch I.D. and are constructed of PVC casing attached to slotted PVC well screen . All were installed in boreholes completed by hollow-stem auger drill methods. Either select sand pack was installed in the screen interval or the granular formation was allowed to collapse to 2 feet above the top of the screen. The wells were then grouted to the surface using a mixture of 90% Portland cement and 10% bentonite.

Monitoring wells proposed for decommissioning were recently inspected which revealed all wells are intact and their respective inner casings secure. All wells are equipped with protective steel casings anchored by a cement pad or with flush curb boxes. None of the wells proposed for decommissioning are part of the Boiler Room site's ground water monitoring program except BR-3. In place of BR-3, we propose to use BR-4 for ground water monitoring, which screens the same depth and is located cross gradient, approximately 25 ft. from of BR-3. If desired in the future, this monitoring network change will also provide improved comparison between shallow and deep ground water chemistry as BR-4 is nested with BR-12, which is screened between 35 and 50 feet below ground level.

Based on the hydrogeology of the site, the shallow depth of the wells and recent well inspections indicating that well casing seals are not compromised, we propose to decommission the monitoring wells by in-place grouting consistent with the procedures defined in section 2.1 and section 6 of the "Ground Water Monitoring Well Decommissioning Procedures; NYSDEC; August 2009. Protective casings and/or curb boxes will be removed. All wells are located in paved areas where plant traffic is present. Because they exist in paved areas, wells will be cut-off between 1 and 2 feet below the surface to minimize the disturbance of the paved surface and the required surface restoration.

Following completion of the well decommissioning, a report will be submitted, summarizing the work efforts and providing completed Monitoring Well Field Inspection Logs (Figure 1; NYSDEC guidance) and Well Decommissioning Record (Figure 3; NYSDEC guidance).

We are planning on beginning this work on Monday 11/12/ 12. Should you have any questions regarding the proposed well decommissioning at the Boiler Room site, please do not hesitate to contact our offices.

Respectively,
Jim

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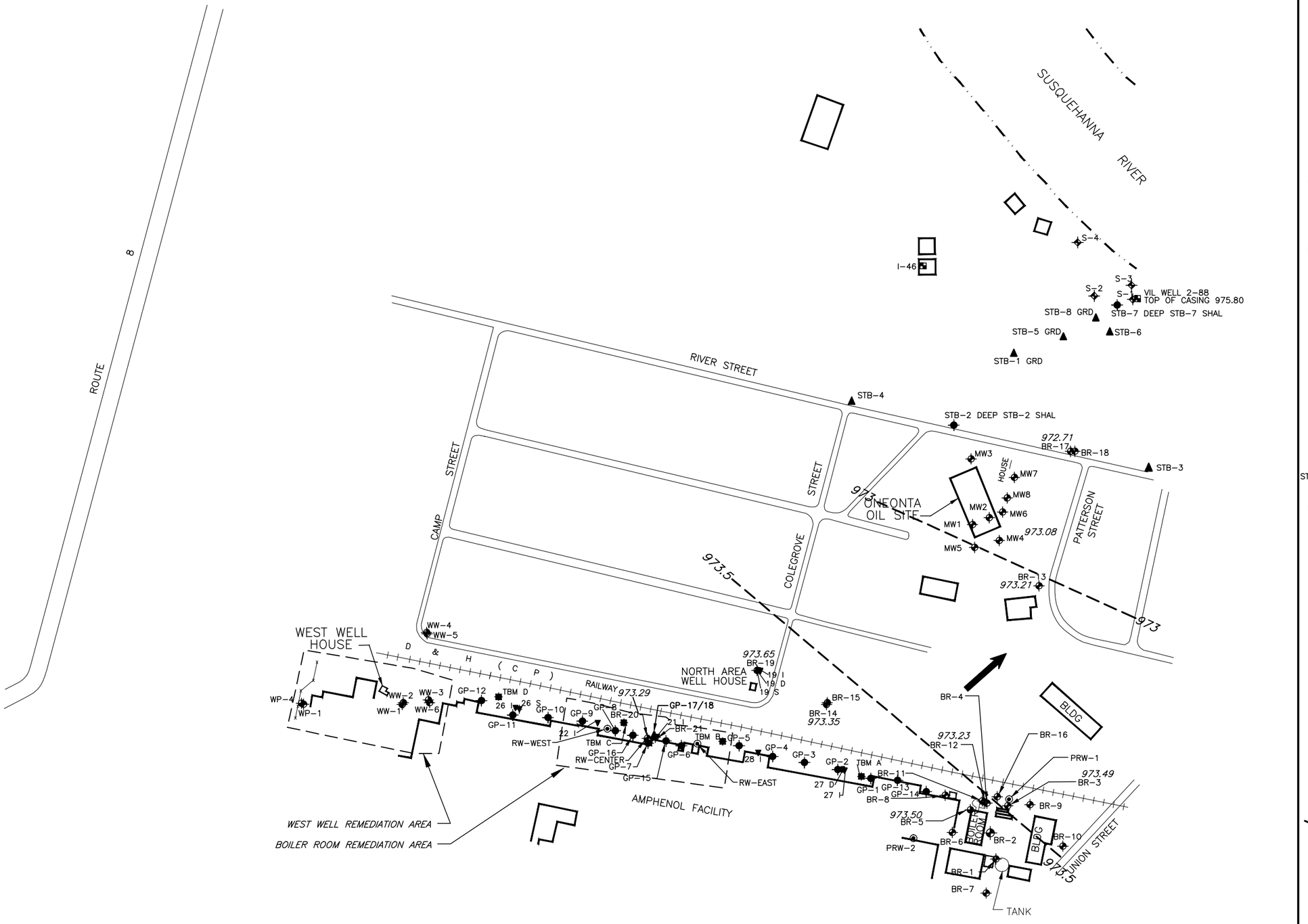
FIGURE 1

AMPHENOL CORPORATION
SIDNEY, NEW YORK

BOILER ROOM
GROUND WATER REMEDIAL SYSTEM

GROUND WATER ELEVATION MAP
MARCH 14, 2012



GRID NORTH
NY STATE PLANE SYSTEM
CENTRAL ZONE

LEGEND

STB-7 DEEP STB-7 SHAL	PIEZOMETER LOCATION
STB-5 GRD	SOIL BORING LOCATION
I-46	PRODUCTION WELL LOCATION
S-2	VILLAGE OF SIDNEY TEST WELL
WW-3	WEST WELL HOUSE MONITOR WELL
MW2	ONEONTA OIL MONITOR WELL
BR-13	BOILER ROOM MONITOR WELL
	WATER SUPPLY SYSTEM MONITOR WELL
973.49	GROUND WATER ELEVATION
973	GROUND WATER ELEVATION CONTOUR
	GROUND WATER FLOW DIRECTION

300 0 300

APPROX. SCALE IN FEET

ADAPTED FROM MAP SUPPLIED BY MACK AND LOWES ASSOCIATED LAND SURVEYORS SIDNEY, NEW YORK MAP NO. 3552-22

JTM ASSOCIATES, LLC
environmental consulting

Table 1

Boiler Room Site
Monitoring Wells Proposed for Decommissioning
Amphenol Aero-Space, Sidney, NY

Well ID	*Diameter (in)*	*Material*	*Depth (ft)*	*Screen Interval (bgl-ft)*	*Sand Pack (bgl-ft)*
BR-1	2	PVC	25	10-25	9-25
BR-2	2	PVC	25	10-25	9-25
BR-3	2	PVC	25	10-25	9-25
BR-5	2	PVC	25	10-25	9-25
BR-6	2	PVC	24	9-24	7-24
BR-7	2	PVC	25	10-25	8-25
BR-8	2	PVC	24.5	9.5-24.5	7-24.5
BR-9	2	PVC	25	10-25	9-25
BR-10	2	PVC	24	9-24	8-24
BR-16	2	PVC	20	15-20	13-20
PRW-1	4	PVC	20	15-20	13-20
PRW-2	4	PVC	20	15-20	13-20