



west virginia department of environmental remediation
Office of Environmental Remediation

VRP Project #: **15017**
Brownfield Site: Yes No
Report Date: **5-4-15**
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OFFICE OF ENVIRONMENTAL REMEDIATION
VOLUNTARY REMEDIATION PROJECT
SITE VISIT/INSPECTION REPORT

APPLICANT

LRS

NAME: Freedom Industries			NAME: Ira Buchanan			LRS# 223		
ADDRESS: 1015 Barlow Drive			ADDRESS: 111-D Saunders Lane					
CITY: Charleston		STATE: WV	ZIP: 25311		CITY: Bluefield		STATE: VA	ZIP: 24605
PHONE: (412)498-8258			PHONE: (800) 897-1063					
CONTACT: Mark Welch, Chief Restructuring Officer								

LOCATION

FACILITY: Freedom Industries		STREET ADDRESS: 1015 Barlow Drive	
CITY: Charleston		COUNTY: Kanawha	PHONE: ()
DATE OF VISIT: April 30, 2015	TIME IN: ~1:30 pm	TIME OUT: ~ 3:00 pm	

SITE STATUS: Abandoned <input checked="" type="checkbox"/> Active <input type="checkbox"/>		UST's: Existing <input type="checkbox"/> Former <input checked="" type="checkbox"/>		SURFACE SOIL STAINING: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
SURFACE WATER ON OR ADJACENT TO PROPERTY: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		EXISTING MONITORING WELLS: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Existing Structures Including Dimensions and Use: 1. Former/current office building (offices, small coal testing lab and storage) - ~125'L x ~85'W x ~30'H; 2. Garage/maintenance and vehicle storage building - ~225'L x ~55'W x ~20'H					
Chemicals of Potential Concern: 4-methylcyclohexanemethanol (MCHM), propylene glycol phenyl ether (PPH), calcium chloride, ethylene glycol, glycerin, polychlorinated biphenyls (PCB's), lead, petroleum hydrocarbons, volatile organic compounds (VOC's) and semi-volatile organic compounds (SVOC's)					
DRINKING WATER SOURCE: GW <input type="checkbox"/> Public <input checked="" type="checkbox"/> Other		SURROUNDING LAND USE: Residential <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Recreational <input type="checkbox"/> Agricultural <input type="checkbox"/> Other <input type="checkbox"/>			
OTHER AREAS OF CONCERN: See below					

COMMENTS

On April 30, 2015 at ~ 1:30 pm Dave Long of the WVDEP, Office of Environmental Remediation (WVDEP/OER) met with Joe Hickman, Kevin Saunders and Brad White of the WVDEP, Division of Water and Waste Management, Office of Environmental Enforcement (WVDEP-OEE) on-site at the Freedom Industries VRP site. Ryan Harbison of WVDEP-OEE also joined the site visit a little later. WVDEP/OER had received a "VRRP Interim Measures Work Plan" dated April 22, 2015 from Freedom Industries (Freedom) prepared by ARCADIS (environmental consultant to Freedom). The primary focus of the plan was to stop the collection and disposal of stormwater runoff from the MCHM/PPH spill area. This would be completed by installing a substitute stormwater collection trench downgradient of the existing trench and placing polyethylene sheeting over the existing trench. Freedom/ARCADIS believe there is residual contamination in the existing trench that is contaminating the stormwater when it enters the trench. Stormwater that flows down the slope in the area of the MCHM/PPH spill would flow over the existing trench and into the substitute trench. The substitute trench water as well as surface water would be sampled to show there are no MCHM/PPH impacts to the Elk River. The basics of the plan had been discussed during the VRP initial site visit on April 6, 2015. WVDEP/OER had concerns with the plan and wanted to meet on-site with WVDEP-OEE to discuss the plan.

We first walked to the spill area to check on the excavation in the former fire house area. An MCHM odor was present and the water level in the excavation was lower than on the previous site visit. A fairly heavy sheen was obvious on the water and staining was present on the walls of the excavation. Climbing down to the lower terrace/collection trench area, significant erosion of the slope below the excavation area was visible. Once down on the lower terrace, an MCHM odor was noticed around the sump areas. The collection trench itself appeared to extend to the western edge of the lower terrace, with no room for an additional trench downgradient of the existing trench on the lower terrace. In addition, the slope from the terrace to the river is much too steep for any additional trench installation. WVDEP/OER and OEE agreed on the following concerns: 1. Any attempt to install an additional trench

downgradient on the lower terrace would breach the existing trench; 2. Any attempt to install a trench below the terrace would likely cause the terrace and trench to collapse, and possibly cause mobilization of the cobble fill area; 3. Removal of existing vegetation to install the trench below the terrace would cause greater instability; and 4. Any trench installed below the terrace would likely be inundated by the river.

The site visit was completed at ~ 3:00 pm

A site map showing the proposed trench location and used during the site walkover is attached to this report.

A numbered list of photos taken during the site visit follows, with the photos attached below:

1. Former fire house area excavation - note sheen on water and staining on walls of excavation (looking north).
2. Looking north across excavation to northern end of site
3. Stormwater flow path from former MCHM/PPH tank area to fire house excavation (looking northeast).
4. Looking south at fire house excavation (note heavy sheen on water)
5. Close-up of erosion below excavation
6. Looking southwest at erosion below excavation.

Signature: _____

Dave Long, Project Manager

email address: David.W.Long@wv.gov

Date: May 4, 2015

1.



3.



2.



4.



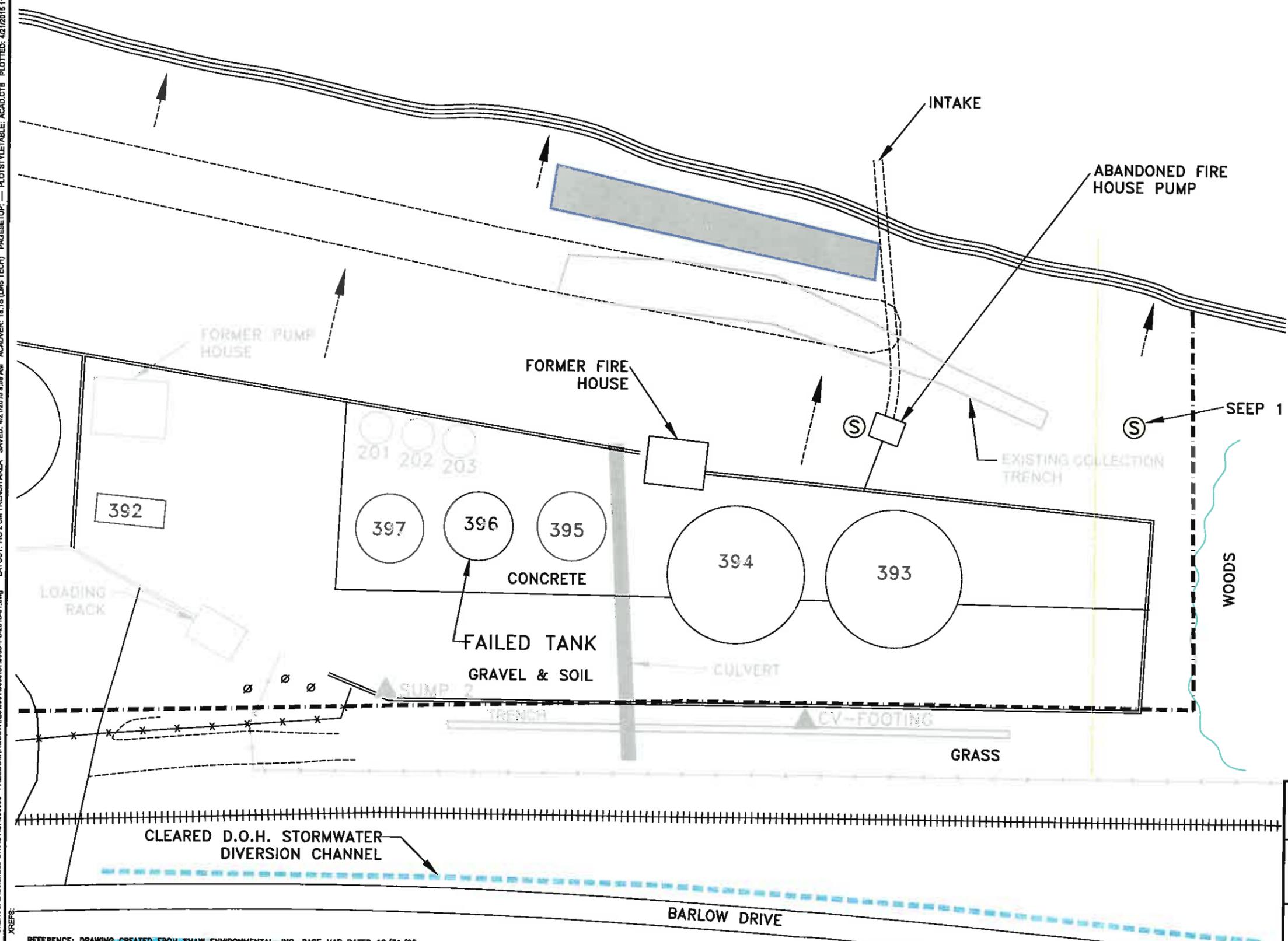
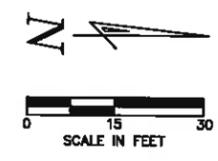
5.



6.



CITY: (Columbus, Oh) D:\WORKGROUP\IMDV DB\R. Smith LD:\Opt\ PKM.J. Marzo TH:\Opt\ L:\R\OPTION\OFF\REF G:\EN\CAD\COLUMBUS-CHARACTOR\03003 - FREEDOM INDUSTRIES\00010003\03003-1-3-2015-01.dwg LAYOUT: FIG 2 SM TRENCH AREA SAVED: 4/21/2015 9:59 AM ACADVER: 18.18 (LMS TECH) PAGESETUP: — PLOTSTYLETABLE: ACAD.CTB PLOTTED: 4/21/2015 11:47 AM BY: SMITH, BOB



- LEGEND**
- ⊙ SEEP
 - ▭ PROPOSED STORM WATER COLLECTION TRENCH
 - - - - - PROPERTY BOUNDARY
 - x - x - FENCE
 - ||||| RAILROAD TRACKS
 - ==== DIKE WALL
 - - - - - STEEP SLOPE
 - NATURAL GAS LINE
 - ⊘ POLE

FREEDOM INDUSTRIES
 1015 BARLOW DRIVE, CHARLESTON, WEST VIRGINIA
 OH003003.0001

PROPOSED STORM WATER COLLECTION
 TRENCH LAYOUT

FIGURE
1

REFERENCE: DRAWING CREATED FROM SHAW ENVIRONMENTAL, INC. BASE MAP DATED 10/31/05.