

ATLANTIC CITY DIVISION OF ENVIRONMENTAL HEALTH
1301 Bacharach Blvd. Atlantic City, N.J. 08401
Phone: (609) 347-5671 Fax: (609) 347-8798

UNDERGROUND STORAGE TANK INVESTIGATION FORM

DATE OF INSPECTION: 9-16-20 NJDEP CASE #: N/A
TIME START: 1200PM TIME FINISH: _____
AC FILE#: F20-0916 PROPERTY OWNER: Ronald Garofalo
INVESTIGATOR: Hammock MAILING ADDRESS: [REDACTED]
FACILITY NAME: Residence [REDACTED]
LOCATION: _____ PHONE #: _____
ADDRESS: 106 S. Raleigh Ave TANK OWNER: MR. Ronald Garofalo
PHONE: _____ ADDRESS: [REDACTED]
BLOCK: 11 LOT: 11 PHONE: _____
CONTRACTOR: MJW Consulting CONSULTANT: _____
CONTACT: Matthew Wurstbridge CONTACT: _____
ADDRESS: P.O. Box 897 ADDRESS: _____
Mayfield, NJ 08330
PHONE: (609) 625-8109 PHONE: _____
RESPONSIBLE PARTY: MR. Ronald Garofalo

TANK INFORMATION

REGULATED _____ (NON-REGULATED ☒ >>> FACILITY/MULTIDWELLING _____
SINGLE FAMILY RESIDENCE ☒)

NJDEP REGISTRATION #: N/A CLOSURE APPROVAL #: N/A

LOCAL DEMOLITION PERMIT #: _____

TANK REMOVAL ☒ TANK ABANDONMENT IN PLACE ☒

DATE OF TANK REMOVAL / ABANDONMENT 9-16-20

NUMBER OF TANKS REMOVED / ABANDONED (1)

STANDARD REPORTING FORM RECEIVED / SUBMITTED _____

	TANK 1	TANK 2	TANK 3	TANK 4
Size(gal)	<u>1,000 gals</u>	_____	_____	_____
Product	<u>#2 #40</u>	_____	_____	_____
Status	<u>Intact</u>	_____	_____	_____
Material	<u>Steel</u>	_____	_____	_____

TANK DIMENSIONS: 11.5ft L x (47" dia)

DISTANCE FROM GRADE TO TOP OF TANK: 16 inches

DISTANCE FROM GRADE TO BOTTOM OF TANK: 63 inches
 VAPOR'S REMOVED: yes TANK RESIDUE REMOVED: yes
 WASTE DISPOSAL CONTRACTOR: Monarch Inc -
 WASTE DISPOSAL MANIFESTS: Monarch Inc - see attachment
 TANK CONDITION: Several pin holes present
 TANK DISPOSED AT: HARBOR Auto Recyclers -
see Attachment

SITE ASSESSMENT INFORMATION

DISCHARGE/CONTAMINATION DETECTED (Y / (N))

SUBSTANCE _____ AMOUNT _____
 GROUNDWATER _____ FREE PRODUCT _____ ODORS _____
 _____ FILM _____ HNU READINGS _____
 _____ SHEEN _____ NOT ENCOUNTERED _____

APPROXIMATE DISTANCE TO GROUNDWATER 13 inches

SOIL _____ SATURATED / FREE PRODUCT _____
 _____ ODORS _____
 _____ HNU READINGS _____
X NO NOTICEABLE CONTAMINATION

UST RELEASE SUMMARY

VAPOR HAZARD (Y / (N))
 POTABLE SUPPLY WELLS THREATENED (PUBLIC / PRIVATE) (Y / (N))
 OFF SITE CONTAMINATION (Y / (N))
 SURFACE WATER IMPACT (Y / (N))

COMMENTS: Observed (1) 1,000 gallon home heating oil UST being excavated for removal. However, part of the tank was placed under staircase of residence. Due to this approx only 60% of tank could be removed (6.5 feet) and 40% or (5 ft) of tank must be abandoned in place for the security/safety of staircase. The tank had approx 112 gallons of water/oil removed. Observed no odors of fuel oil in soil that lied around the area where tank was located. Groundwater was observed at 62 inches below grade. NO evidence of fuel in water or soil - NO further remediation needed. Site appears to be clean.

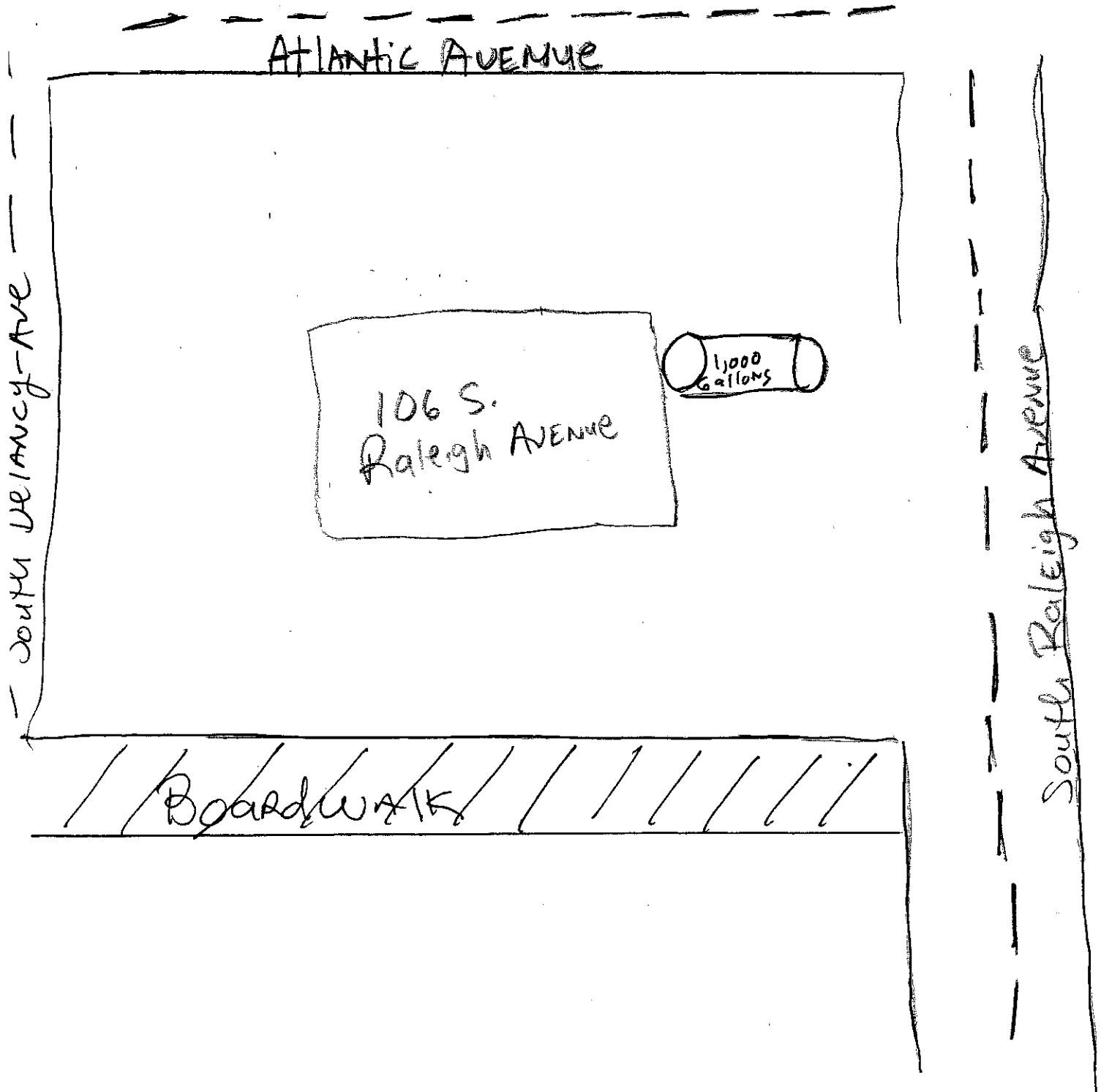
Investigator's Signature

Robert Hammer
 B-2010

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SITE SKETCH (NOT TO SCALE)

Please Indicate: Facility Location, Location of Tanks, Facility Well Location, Monitoring Well Locations, Direction Indicator, Nearest Street and any other Pertinent Information.



106 S. Raleigh Avenue

9-16-20



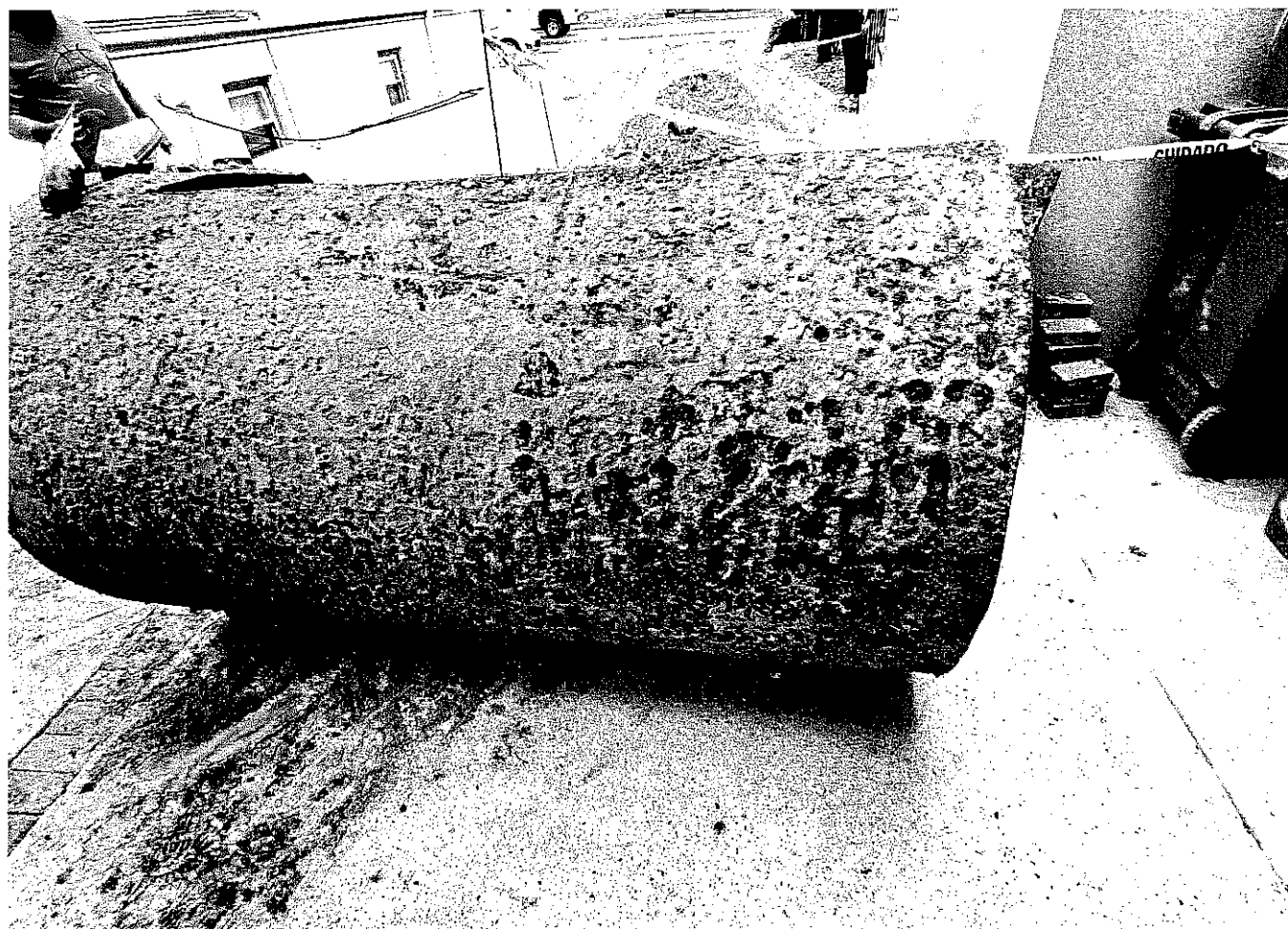
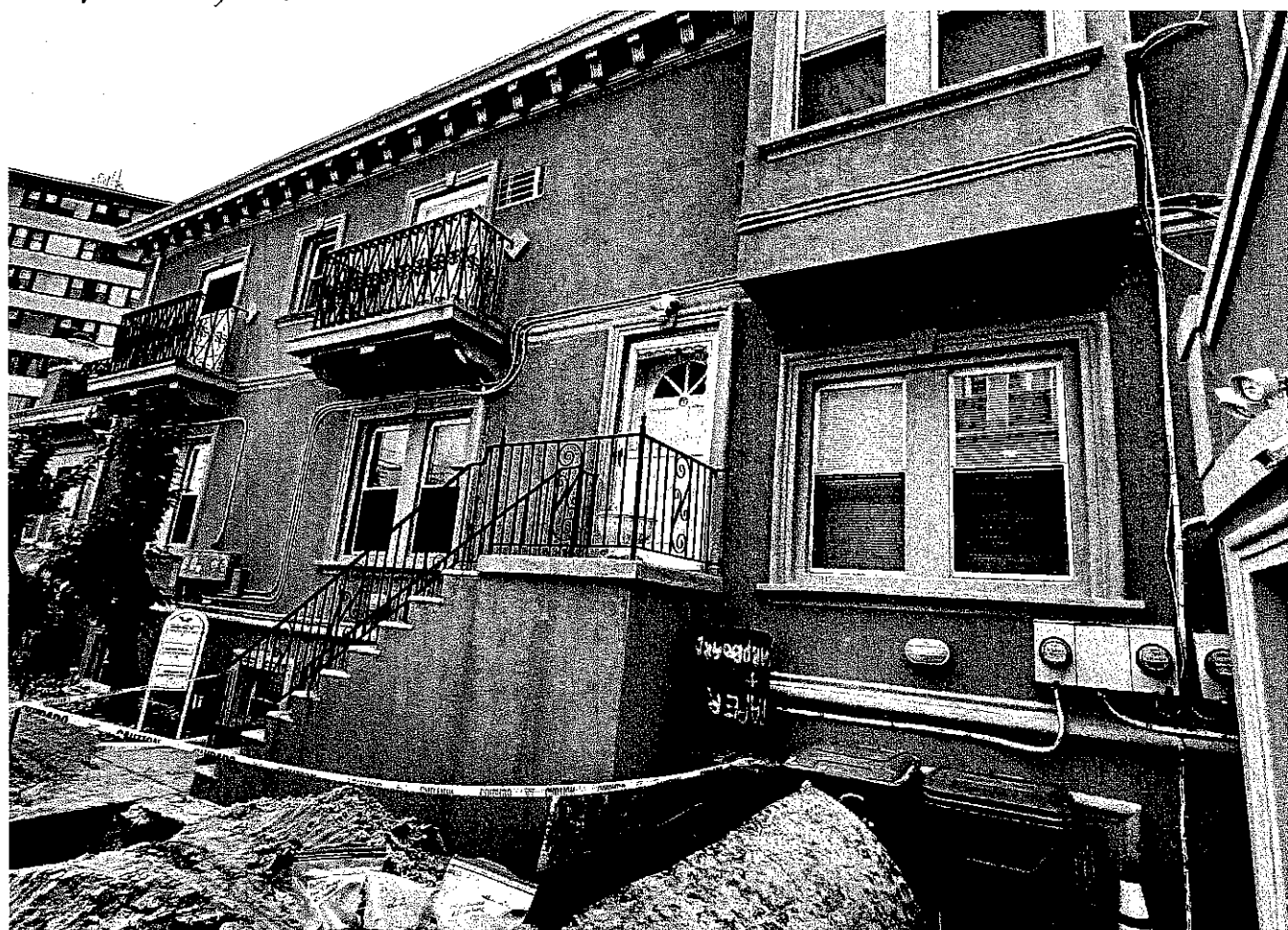
104 S. PASEO DE LA UNIV

7-10-20



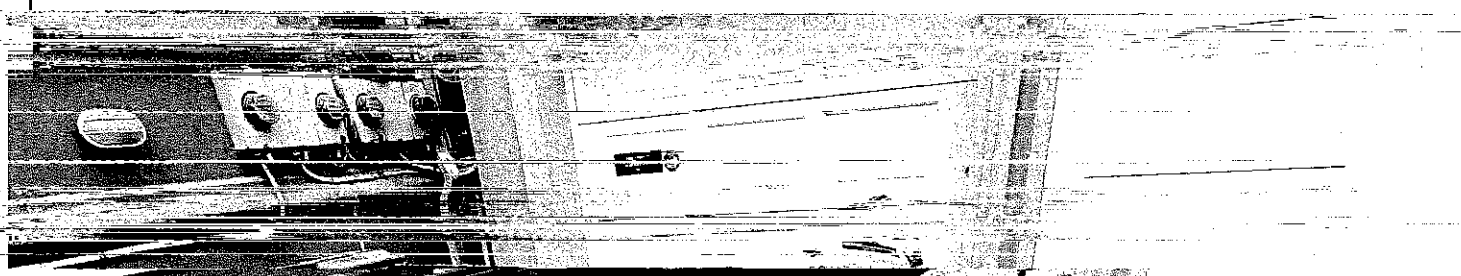
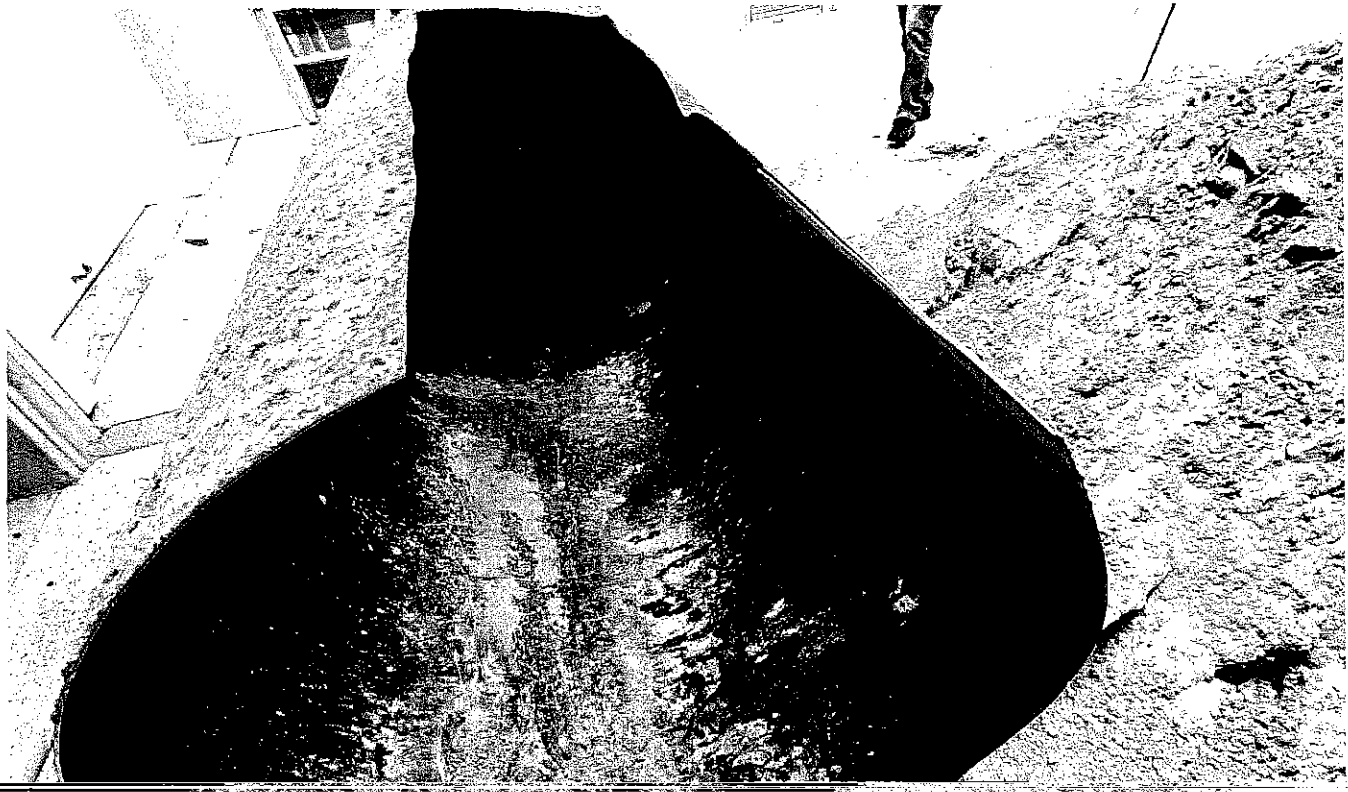
106 S. KATEYH AVENUE

7-16-20



06 S. KALIGH AVENUE

7-16-20



106 S. KALEIGH AVENUE

7-16-20



MJW Consulting

P.O. Box 897
Mays Landing, NJ 08330
609-625-8109 FAX: 609-531-9063
mjwconsultingnj@gmail.com

September 18, 2020

Ron Garofalo
[REDACTED]
[REDACTED]

VIA EMAIL: [REDACTED] and Regular Mail

Subject: Underground Storage Tank Removal and Subsurface Investigation Report
1,000 Gallon Inactive #2 Heating Oil Tank
Site: 106 S. Raleigh Avenue (Block 11 Lot 11), Atlantic City, NJ

Dear Mr. Garofalo,

The Underground Storage Tank (UST) removal at 106 S. Raleigh Avenue in Atlantic City was completed on September 16, 2020. The UST at this site had insignificant levels of petroleum hydrocarbon below the tank footprint. The tank was cleaned of all waste material and partially removed from the property to prevent future release. A small portion of the tank was left in place in order to support a masonry staircase built above this area. We obtained a permit from the Atlantic City Construction office. The Atlantic City Health Department was also asked to inspect the tank removal. Once the inspections were completed, the tank components that could be removed were transported to a scrap dealer. The site was brought back to grade with clean fill material to conclude the site work. All environmental liability is resolved with regard to this UST.

The following attachments are included to document the removal and subsurface investigation of the tank at this property:

- Figure 1: Interior of tank after cleaning - end under staircase with sampling point shown
- Figure 2: Interior of tank after cleaning - end towards Atlantic Avenue
- Figure 3: Stopping groundwater from entering the UST while removing a portion of UST
- Figure 4: Approximately 60% of the UST is removed - no exterior staining
- Figure 5: Bottom of tank shows no staining
- Figure 6: Open excavation shows no staining - sampling points shown
- Monarch Environmental Manifest #442003, dated 9-16-20
- Penn Jersey clean fill receipt, dated 9-16-20
- Scrap Receipt, dated 9-16-20
- MJW Certification

A summary of the work performed is presented below.

Tank Removal

On Wednesday, September 16, 2020 the site was mobilized and the tank was cut open for cleaning. The tank ran parallel to Raleigh Avenue, in the driveway. The UST was 47 inches in diameter and 11.5 feet long. 112 gallons of oil, water and tank sludge was removed from the tank. Catalytic paste was used to confirm that the bottom six inches of the liquid was water. Three inches of oil was floating on top of the water. Monarch Environmental provided VAC truck service to transport and dispose of the waste material. Monarchs manifest number 442003 is attached to document the proper disposal of this waste material. Because of the structural constraints imposed by a masonry staircase above the UST not all of the steel could be removed from the ground. As shown in Figure 6 approximately 60% of the UST could be removed without causing structural problems with the staircase. In order to leave 40% of the UST under the staircase we entered the tank and cut a sampling port through the centerline of the tank, at the end closest to the building. Sampling point B1-Ocean was taken through this sampling port.

Once the tank was clean we cut their circumference of the UST and removed the outer 60% from the ground. This portion of the tank measured 6.5 feet in length. The portion of the tank remaining in the ground measured five feet. During this process photographs were taken to document the condition of the site. Figure 1 shows the ocean end of the UST. Figure 2 shows the Atlantic Avenue end of the UST after all waste material was removed. The water shown in this figure was coming into the UST from the portion of the tank cut below the groundwater level. Both the sampling port and the circumference of the tank had to be cut below the groundwater level in order to remove a portion of The UST. In Figure 3 we show the entire tank top and the staircase with the groundwater level suppressed until the outer portion of the tank could be removed. Figure 4 shows the excavation as the outer portion was removed. In Figure 5 we show the invert of the portion of the UST that was removed. The tank invert would normally be discolored, if heating oil was escaping the UST. Finally, in Figure 6 we show the excavation under where the outer portion of the UST was removed. Superimposed on this figure are the two sampling points that were taken in the open excavation. We inspected the removed portion of the tank for corrosive holes and none were found. There was no staining visible on the bottom of the UST. The lack of both staining and corrosive holes in the tank shell suggests that this is a clean site. Soil screening below the tank invert confirms that a petroleum hydrocarbon release is not present.

Once the tank was physically removed from the ground and set for inspection, we waited for the Atlantic City Health Department to inspect. Rodney Hammock inspected on behalf of the Atlantic City Health Department. We shared our PID analysis of the site. Mr. Hammock did not find any signs of corrosive failure or soil staining. We are forwarding a complete copy of this reporting to the Atlantic City Health Department.

The Atlantic City Construction office received our permit application and payment prior to starting the work. However, we had not received the permit when this reporting was issued. We are forwarding a complete copy of this reporting to the Atlantic City Construction office to complete the permitting requirements.

At the end of the day on September 16, 2020 we removed the UST for disposal as scrap metal. The tank was transported and disposed of at Harbor Auto Recyclers on the same day. A receipt for the disposal of the tank is attached. After confirming a clean site, the excavation was then backfilled with clean fill material to return the site to grade level. A receipt from Penn Jersey Building Materials, Inc. is provided to document the source of the clean fill material.

Site Investigation

Three sampling points were placed below the centerline of the UST on September 16, 2020. Sampling point B1-Ocean was placed at the end of the excavation under the staircase. Sampling point B2-Middle was placed in the center of the excavation. Sampling point B3-Atlantic was placed at the end of the excavation closest to Atlantic Avenue. All three soil samples were obtained at 67 to 73 inches below grade level. The groundwater interface is at approximately 62 inches below grade. Sampling point B1 produced 1.5 units on a calibrated photo ionization detector (PID). Sampling points B2 produced 2.2 units. Sampling point B3 produced 0.6 units. These results prove insignificant levels of petroleum hydrocarbon below the UST footprint. MJW Consulting normally certifies the site clean if there is no staining or smell of oil and all PID readings are below five units. In this case, the need for laboratory analysis is not required and 106 S. Raleigh Avenue is considered a clean site.

No further analysis or remediation is required for 106 S. Raleigh Avenue, based on these results.

Summary and Conclusions

In summary, the underground storage tank was cleaned and partially removed. Having removed the source of a potential release, the property can now be sold without concern for environmental liability in the future. Subsurface investigation of soils proves that the tank did not cause soil contamination, prior to being removed. Therefore, soil and groundwater remediation can be avoided. All environmental liability has been resolved with regard to this UST.

Should you have further questions, please do not hesitate to call.

Sincerely,



Matthew J. Wristbridge
MJW Consulting

w/ attachments

cc: Atlantic City Construction office; w/ attachments

✓cc: Rodney Hammock; Atlantic City Health Department; w/ attachments

Figure 1: Interior of tank after cleaning - end under staircase with sampling point shown



Figure 2: Interior of tank after cleaning - end towards Atlantic Avenue



Figure 3: Stopping groundwater from entering UST while removing a portion



Figure 4: Approximately 60% of the UST is removed - no exterior staining



Figure 5: Bottom of tank shows no staining



Figure 6: Open excavation shows no staining - sampling points shown

