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NS MAYPORT
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LETTER REPORT REQUESTING NO FURTHER ACTION AT TANK SITE BUILDING 365 NS
MAYPORT FL
2/25/2003
TETRA TECH NUS



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ORIGINAL

February 25, 2003

Project Number N2814

Mr. Jim Cason
FDEP, Twin Towers Office Building
Technical Review Section
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Reference: Contract Task Order Number 0176

Subject: Request for No Further Action (NFA)
Tank Site Building 365
Naval Station (NS) Mayport, Mayport, Florida

Dear Mr. Cason:

This letter is in response to FDEP's review and follow up letter dated December 18, 2002, regarding the Tetra Tech NUS, Inc. (TtNUS) Source Removal Report for Site 365 at NS Mayport, Mayport Florida. The area of interest is the location of a former 500 gallon heating oil underground storage tank (UST) that was removed in April 1995. A Site Assessment Report (SAR) and SAR Addendum were prepared that documented one small area of soil contamination above soil cleanup target level (SCTL) values at the site and that impacts to groundwater were below applicable groundwater cleanup target levels (GCTLs). As a result, TtNUS conducted a source removal in the area of the UST in June 2002 to remove the impacted soil area. In the referenced letter, the Florida Department of Environmental Protection (FDEP) requested a groundwater flow map and groundwater analytical data documenting that groundwater had not been impacted by the source removal activities.

TtNUS has conducted a site assessment at Site 365G, which is located immediately south of the former location of the removed heating oil UST. During this effort, the groundwater flow direction in the shallow surficial aquifer was determined and water samples were collected. Monitoring well MW-02 is located approximately 10 feet (ft) downgradient of the excavation area for the former heating oil UST. Monitoring well MW-02 is 13 ft deep with a screened interval from 3 to 13 ft below land surface (bls). A groundwater flow direction (potentiometric) map generated from the water table elevation data inferred an easterly direction of groundwater as shown on the attached figure (Figure 1).

Monitoring well MW-02 was sampled on August 22, 2002. Groundwater samples collected from MW-02 were sent to Mitkem Corporation (Mitkem) located in Warwick, Rhode Island for analysis of all constituents included in the Gasoline and Kerosene Analytical Groups. The only constituent reported at a concentration exceeding its GCTL was chloromethane at 3 micrograms per liter ($\mu\text{g/L}$). The GCTL for chloromethane is $2.7\mu\text{g/L}$. Chloromethane detections were also reported in two other monitor wells sampled during the assessment of site 365G.

TtNUS had two substantial reasons to question the validity of the chloromethane results. First, Mitkem had already reported false positives for ethylene dibromide (EDB) in its laboratory report; and second,

chloromethane is a known by-product in the degradation process of chlorinated solvents, and the site had no previous history of chlorinated solvent contamination. Consequently, groundwater samples were collected a second time from wells having reported chloromethane detections and were submitted to Environmental Conservation Laboratories (ENCO) in Jacksonville, Florida for analysis by the same lab method used by Mitkem (Method 8260B). No chloromethane was detected in the three samples analyzed by ENCO. As a result, the detection of chloromethane was determined to be a false positive. The laboratory analytical results for these sampling events are presented herein as Attachment A.

Based on available information, groundwater at Tank Site 365 contains no detectable petroleum hydrocarbons. Combined with the prior removal of impacted soil documented in the TtNUS Source Removal Report dated November 26, 2002, the site is eligible for closure under Chapter 62-770, Florida Administrative Code. It is the recommendation of TtNUS that FDEP grant "No Further Action" status to the site.

If you have any questions or require additional information, please contact me at (904) 636-6125.

Sincerely,

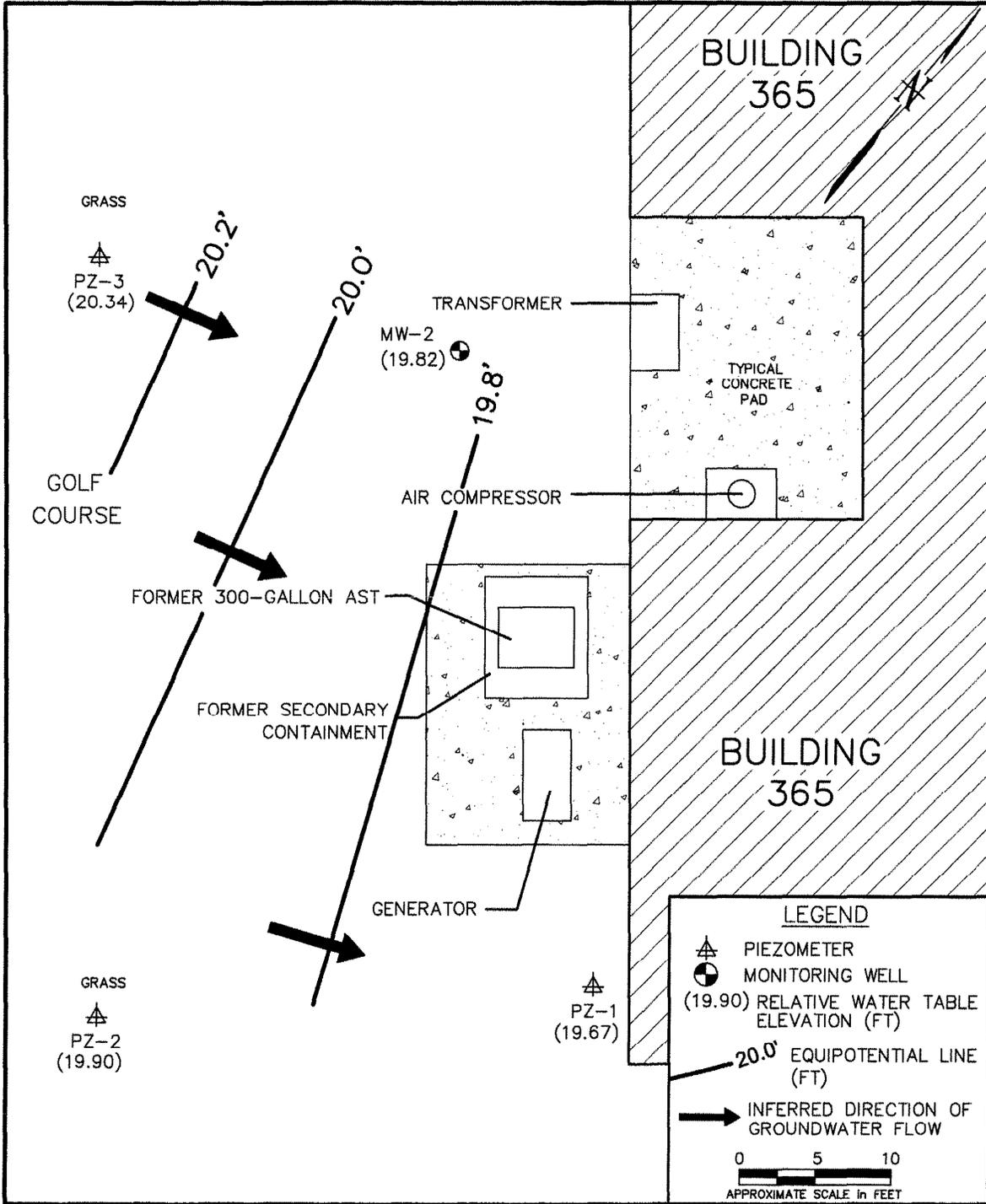


A circular stamp is visible in the background of the signature area, but its text is illegible.

Mark Peterson, P.G.
Florida License Number PG-0001852

Enclosures

pc: Mr. Jan Bovier, NS Mayport
Ms. Beverly Washington, SOUTHNAVFACENGCOM
Ms. D. Wroblewski, TtNUS
Mr. M. Perry, TtNUS
Project Office File



DRAWN BY LK	DATE 10/22/02
CHECKED BY	DATE
COST/SCHED-AREA	
SCALE AS NOTED	



POTENTIOMETRIC CONTOUR MAP
SITE ASSESSMENT REPORT
SITE G365
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

CONTRACT NO. 4240	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 1	REV. 0

PROJ_NO: 4240

SDG: A1267 MEDIA: WATER DATA FRACTION: PET

nsample MPT-365-MW2S-01
samp_date 8/22/2002
lab_id C208588*3
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

nsample MPT-365-MW3S-01
samp_date 8/22/2002
lab_id C208588*4
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

nsample MPT-365-MW4S-01
samp_date 8/22/2002
lab_id C208588*5
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	250		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	100	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	100	U	

PROJ_NO: 4240

SDG: A1267 MEDIA; WATER DATA FRACTION: PAH

nsample MPT-365-MW2S-01
samp_date 8/22/2002
lab_id A1267-03D
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

nsample MPT-365-MW3S-01
samp_date 8/22/2002
lab_id A1267-04D
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

nsample MPT-365-MW4S-01
samp_date 8/22/2002
lab_id A1267-05D
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	U	
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	U	
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
1-METHYLNAPHTHALENE	1	U	
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	U	
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 4240

SDG: A1267 MEDIA: WATER DATA FRACTION: OV

nsample MPT-365-MW2S-01
 samp_date 8/22/2002
 lab_id A1267-03B
 qc_type NM
 units UG/L
 Pct_Solids 0
 DUP_OF:

nsample MPT-365-MW2S-01
 samp_date 8/22/2002
 lab_id A1267-03B
 qc_type NM
 units UG/L
 Pct_Solids 0
 DUP_OF:

nsample MPT-365-MW3S-01
 samp_date 8/22/2002
 lab_id A1267-04B
 qc_type NM
 units UG/L
 Pct_Solids 0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	0.4	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.02	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UR	C
BENZENE	1	U	
BROMODICHLOROMETHANE	0.6	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	0.4	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	3		
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	0.2	U	
ETHYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	2	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	1	U	

Parameter	Result	Val Qual	Qual Code
VINYL CHLORIDE	1	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	1	U	
1,1,2,2-TETRACHLOROETHANE	0.4	U	
1,1,2-TRICHLOROETHANE	1	U	
1,1-DICHLOROETHANE	1	U	
1,1-DICHLOROETHENE	1	U	
1,2-DIBROMOETHANE	0.3	U	
1,2-DICHLOROETHANE	1	U	
1,2-DICHLOROPROPANE	1	U	
2-CHLOROETHYL VINYL ETHER	1	UR	C
BENZENE	1	U	
BROMODICHLOROMETHANE	0.6	U	
BROMOFORM	1	U	
BROMOMETHANE	1	U	
CARBON TETRACHLORIDE	1	U	
CHLOROBENZENE	1	U	
CHLORODIBROMOMETHANE	0.4	U	
CHLOROETHANE	1	U	
CHLOROFORM	1	U	
CHLOROMETHANE	1	U	
CIS-1,2-DICHLOROETHENE	1	U	
CIS-1,3-DICHLOROPROPENE	0.2	U	
ETHYLBENZENE	1	U	
METHYL TERT-BUTYL ETHER	10	U	
METHYLENE CHLORIDE	2	U	
TETRACHLOROETHENE	1	U	
TOLUENE	1	U	
TOTAL XYLENES	1	U	
TRANS-1,2-DICHLOROETHENE	1	U	
TRANS-1,3-DICHLOROPROPENE	0.2	U	
TRICHLOROETHENE	1	U	

PROJ_NO: 4240

SDG: A1267 MEDIA: WATER DATA FRACTION: M

nsample MPT-365-EQUIP-01
samp_date 8/22/2002
lab_id A1267-07C
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
LEAD	1.0	U	

nsample MPT-365-MW1S 01
samp_date 8/22/2002
lab_id A1267-02C
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
LEAD	1.0	U	

nsample MPT-365-MW2S-01
samp_date 8/22/2002
lab_id A1267-03C
qc_type NM
units UG/L
Pct_Solids 0
DUP_OF:

Parameter	Result	Val Qual	Qual Code
LEAD	1.0	U	

ENCO LABORATORIES

REPORT # : JAX29311

DATE REPORTED: January 28, 2003

REFERENCE : MAYPORT SITE 365

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RESULTS OF ANALYSIS

EPA METHOD 8260 -
VOLATILE ORGANICS

	<u>MPT-365-MW2</u>	<u>MPT-365-MW4</u>	<u>Units</u>
Chloromethane	1.0 U	1.0 U	ug/L
<u>Surrogate:</u>	<u>% RECOV</u>	<u>% RECOV</u>	<u>LIMITS</u>
Dibromofluoromethane	119	120	71-136
D8-Toluene	107	102	75-126
Bromofluorobenzene	106	109	76-120
Date Analyzed	01/27/03 14:42	01/27/03 15:17	

EPA METHOD 8260 -
VOLATILE ORGANICS

	<u>MPT-365-MW1</u>	<u>LAB BLANK</u>	<u>Units</u>
Chloromethane	1.0 U	1.0 U	ug/L
<u>Surrogate:</u>	<u>% RECOV</u>	<u>% RECOV</u>	<u>LIMITS</u>
Dibromofluoromethane	124	117	71-136
D8-Toluene	107	108	75-126
Bromofluorobenzene	102	109	76-120
Date Analyzed	01/27/03 15:53	01/27/03 14:06	

U = Compound was analyzed for but not detected to the level shown.