

M00263.AR.000124  
MCRD PARRIS ISLAND  
5090.3a

LETTER REGARDING SUMMARY OF ANALYTICAL RESULTS FROM SAMPLING OF  
WATER INVESTIGATION DERIVED WASTE GENERATED DURING INSTALLATION OF  
GROUNDWATER MONITORING WELLS AT SITE 1, SITE 3 AND SITE 12 WITH  
ATTACHMENT MCRD PARRIS ISLAND SC  
11/16/1998  
TETRA TECH NUS

**TETRA TECH NUS, INC.**

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PITT-11-8-137  
November 16, 1998  
Project Number 7394 and 7803

Mr. Tim Harrington, NREAO  
Commanding General  
Marine Corps Recruit Depot  
Building 864  
Parris Island, SC 29905

Reference: CLEAN Contract No. N62467-94-D-0888  
Contract Task Order No. 0020 and 0053

Subject: Water Investigative-Derived Waste  
MCRD Parris Island, South Carolina

Dear Mr. Harrington:

TtNUS has compiled a summary of the analytical results obtained from the sampling of water investigative-derived waste (IDW) generated during the installation and sampling of groundwater monitoring wells at Site 1 (Incinerator Landfill), Site 2 (Borrow Pit Landfill), Site 3 (3<sup>rd</sup> Battalion Causeway), and Site 12 (Jericho Island). This water IDW consists of groundwater obtained during the sampling process and rinse water generated from steam cleaning the drilling rig.

The attached table has been provided for your review. The table presents the highest analytical result observed for chemicals detected in any water that possess a federal criterion for RCRA waste characterization (40 CFR 261.24). Additionally, the table presents a list of other parameters requested by the MCRD.

The detected analytical results are one or more orders of magnitude below the criteria listed in 40 CFR 261.24. Based on these results, there is no evidence that the IDW exhibits characteristics of a RCRA-hazardous waste.

Approximately 5,200 gallons of water IDW were containerized from activities occurring at Site 1, 2, 3 and 12. As per earlier discussions, TtNUS is requesting that the Depot grant permission to discharge this containerized IDW to the Depot's wastewater treatment system. TtNUS will use a subcontractor to convey the water to a discharge location. A suitable discharge location is requested.

If you should have questions, please contact myself at (412) 921-8375 or Jason Brown at (412) 921-8401.

Sincerely,

David D. Brayack  
Task Order Manager

DDB/jb

Enclosure

Mr. Tim Harrington, NREAO  
Marine Corps Recruit Depot  
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c: Ms. D. Evans-Ripley, SOUTHDIV (w/o enclosure)  
Mr. A. Sanford, SOUTHDIV  
Mr. D. Wroblewski, TetraTech NUS (w/o enclosure)  
Mr. M. Perry, TetraTech NUS  
Mr. J. Brown, TetraTech NUS  
File 7394  
File 7803

**Water IDW Results  
MCRD Parris Island**

<b>Fraction</b>	<b>RCRA Criteria<sup>(1)</sup></b>	<b>Maximum Detected Value in Water Samples</b>
<b>Volatiles (ug/L)</b>		
2-BUTANONE (METHYL ETHYL KETONE)	200,000	38
BENZENE	500	21
CHLOROBENZENE	100,000	130
CHLOROFORM	6,000	4.5
TRICHLOROETHENE	500	0.4 J
<b>SVOCs (ug/L)</b>		
2-METHYLPHENOL (o-CRESOL)	200,000	3 J
4-METHYLPHENOL (p-CRESOL)	200,000	73
<b>PCBs/Pesticides (No pesticides or PCBs detected)</b>		
<b>Metals (ug/l)</b>		
ARSENIC	5,000	35.9
BARIUM	100,000	1,230
CADMIUM	1,000	3.9
CHROMIUM	5,000	48.8
LEAD	5,000	171
MERCURY	200	0.23
SELENIUM	1,000	25.8
SILVER	5,000	7.9
<b>Water Quality Parameters</b>		
BIOCHEMICAL OXYGEN DEMAND (mg/l)	None	< 5
CHEMICAL OXYGEN DEMAND (mg/l)	None	50
CHLORIDE (mg/l)	None	20,000
FECAL COLIFORM	None	< 100
FLOURIDE	None	300
HARDNESS as CaCO3 (mg/l)	None	6,300
NITRATE/NITRITE, AS N (mg/l)	None	6.8
OIL & GREASE (mg/l)	None	ND
PH	None	4.74 - 10.2
SULFATE (mg/l)	None	2,200
TOTAL DISSOLVED SOLIDS (mg/l)	None	35,000
TOTAL ORGANIC CARBON (mg/l)	None	74
TOTAL SUSPENDED SOLIDS (mg/l)	None	270

<sup>(1)</sup> Toxicity characteristic criteria listed in 40 CFR 261.24

J = Estimated Value