

*copy - from to site 4/11/83, MTRK, MIBK,
replace ... EDB (fuel sites)*

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MEMORANDUM FOR CODE 09A21

Subj: NACIP PROGRAM, MCB CAMP LEJEUNE CONFIRMATION STUDY CONTRACT

N62470-83-C-6106

1. Second round sampling and testing under subject contract is required. In addition, based on results from round one, a characterization effort is needed for sites in the Had~~not~~ Point industrial area. Request you solicit from ESE, Inc. a proposal for a change order to accomplish the following:

a. Site 1, French Creek Liquids Disposal Area: Sample and test the six shallow wells. Analytical parameters are the same as for round one.

b. Site 2, Former Nursery/Day Care Center: Sample and test water and soil at previous locations. Sample soil at three locations in the vicinity of sample 254; sample surface water from the drainage ditch in two locations; install and sample three shallow two-inch wells in locations directed by the EIC. Analyze each sample for OCP, OCH, and dioxin.

c. Site 6, Storage lots 201 and 203

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Install and sample six shallow two-inch wells in locations directed by the EIC. Sample surface water from Bearhead and Wallace Creeks adjacent to the site. Analyze all samples for DDT-R.

d. Site 9, Fire Fighting Training Pit

Resample and test the two shallow wells. Parameters are the same as for round one.

e. Site 21, Transformer Storage Lot 140

Sample soil at eight locations around perimeter of site. Sample four depths at each location and analyze for OCP, OCH, PCB, and dioxin. Resample well GW21-1 and analyze for VOA, OCP, OCH, PCB, and dioxin.

f. Site 22, Tank Farm

Install and sample three additional shallow two-inch wells in locations directed by the EIC. Resample two existing shallow wells and analyze all samples for the same parameters as for round one.

g. Site 24, Industrial Area Fly Ash Dump

Sample five shallow wells and analyze for metals A and VOA.

h. Site 28, Hadnot Point Burn Dump

Sample three shallow wells and analyze for same parameters as listed for round one plus dioxin.

i. Site 30, Combat Town Training Area

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Sample shallow well and analyze for same parameters as listed for round
one.

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j. Site 35, Camp Geiger Area Fuel Farm

Install and sample three shallow two-inch wells in locations directed by the EIC. Sample Brinson Creek in two locations; analyze all samples for Pb, VOA, and O&G.

k. Site 36, Camp Geiger Area Dump

Resample shallow wells; sample Brinson Creek and unnamed creek south of site in two locations. Analyze all samples for parameters listed in round one.

l. Site 41, Camp Geiger Dump

Resample four shallow wells. Sample Tank Creek in two locations and unnamed creek in two locations and analyze all samples for parameters listed in round one plus dioxin.

m. Site 45, Campbell Street Underground Fuel Storage Area

Resample three shallow wells and analyze for Pb, O&G, VOA.

borings

n. Site 54, Crash Crew Fire Training Burn Pit

Resample shallow well and analyze for constituents listed for round one.

o. Site 68, Rifle Range Dump

Resample three shallow wells and analyze for constituents listed for round one.

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p. Site 69, Rifle Range Chemical Dump

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Resample eight shallow wells and three surface water locations. Sample two unnamed guts southeast of site. Analyze all samples for parameters listed in round one plus dioxin.

q. Site 73, Courthouse Bay Liquid Disposal Area

Resample four shallow wells and sample Courthouse Bay in three locations. Analyze all samples for parameters listed in round one.

r. Site 74, Grease Pit and Pest Control Area

Resample two shallow wells and analyze for OCP, OCH, PCB, and dioxin.

s. Site 75, MCAS Basketball Court

Resample three shallow wells and analyze for VOA, chloropicrin, and dioxin.

t. Site 76, MCAS Curtis Road

Resample two shallow wells and analyze for VOA, chloropicrin, and dioxin.

u. Sample all potable wells on MCB Camp Lejeune and MCAS New River (approx. 100). Composite samples from a maximum of ten wells serving the same water treatment plant and analyze for priority pollutants and ^{Safe Drinking Water Act} (SDWA) parameters. If results from the composite exceed regulatory limits or suggested guidelines for potable water, analyze samples from the individual

wells to pinpoint the source ^{of} ~~to~~ contamination.

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Do - Conduct Step IB, Characterization, for wells in Hadnot Point industrial area IAW the original scope of work for the confirmation study, MCB Camp Lejeune.

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Perform aquifer testing to estimate transmissivity, hydraulic conductivity, and storage coefficients for the shallow aquifer in

Hadnot Point industrial area (bounded by Sneads Ferry Road, Cogdels Creek, the

New River, and Wallace Creek) and for the deep potable water aquifer

influenced by wells serving the Hadnot Point treatment plant. The pump houses

for these wells are numbered:

601	613	633	642
602	614	634	651
603	615	635	652
606	616	636	653
608	620	637	654
609	621	638	655
610	626	639(2)	LCH-4006
611	627	640	LCH-4007
612	632	641	

Determine aquifer permeability; rate and direction of ground water and contaminant flow for the deep potable water supply aquifer influenced by wells listed above, and for the shallow aquifer in the Hadnot Point industrial area. Potable water wells shall be evaluated for various well pumping combinations. Access holes will be drilled, threaded and removable plugs installed in the tops of all potable wells to provide a means of logging the depths of the water levels in the wells. The elevations of these plug holes above mean sea level shall be accurately determined by surveying. The method

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described in Attachment A or another commonly used method/model, as approved by the EIC, shall be used to determine the flow characteristics and contaminant profiles of the aquifers under study.

and evaluate

w. Specify five each interim and long-term feasible alternatives for cleanup of contaminated aquifers. *Conduct Step II - Feasibility for the Hudson Point well field and prepare the necessary State Project Documentation as directed by the EIC*

x. A short-status report on the results of this additional work shall be forwarded to the Government for review. *Per the original scope of work effort* Pertinent facts and conclusions shall be provided in the status report.

2. The Government fee estimate is being prepared by Code 114 and will be forwarded to you as soon as possible.

J. R. BAILEY, P.E.
Head, Environmental Quality Branch
Utilities, Energy and Environmental
Division

Blind Copy to:
0912, 11, 405, 411

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114S

Doc #2576A/CFB/dhs.

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