ABBREVIATED WORK PLAN – DECEMBER 5, 2014
QUARTERLY GROUNDWATER SAMPLING, OPERABLE UNIT 2 GROUNDWATER
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP), BETHPAGE, NEW YORK

This abbreviated work plan addendum has been prepared for the Mid-Atlantic Division of the Naval Facilities Engineering Command (NAVFAC) pursuant to Contract Task Order (CTO) WE15, issued under Comprehensive Long-term Environmental Action Navy (CLEAN) contract number N62470-11-D-8013. This abbreviated work plan addresses activities being conducted off site of the Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage Operable Unit (OU) 2 Site 1 Offsite plume. NWIRP Bethpage is located in east-central Nassau County, Long Island, New York (Figure 1).

Scope and Objectives

This abbreviated work plan describes the quarterly groundwater sampling activities to begin in December 2014 pursuant to and in compliance with the Uniform Federal Policy (UFP) Sampling and Analysis Plan (SAP) Addendum: *Groundwater Sampling Using Low Stress (Low Flow) Purging and Sampling Protocol* (Resolution Consultants, 2013). The purpose of this sampling is to provide information on a narrow "finger" of contamination that is south of the Onsite Containment System (ONCT) in the western offsite plume, which could represent contamination that has bypassed the ONCT. The locations of monitoring wells to be sampled as part of this effort are shown in Figure 2.

Field Program

Quarterly field tasks will begin in December 2014 and be conducted after that, in accordance with the UFP SAP Addendum: *Groundwater Sampling Using Low Stress (Low Flow) Purging and Sampling Protocol* (Resolution Consultants, 2013). The field investigation in December 2014 will include purging and sampling of 16 monitoring wells; additional wells may be added to these as they are installed and become available for sampling.

Analyses will be performed in accordance with the UFP SAP (Resolution Consultants, 2013) and the UFP SAP Addendum: *Inclusion of Additional Target Analytes for Volatile Organic Analysis* (Resolution Consultants, 2014) using Method 8260C or EPA 524.2. 1,4 dioxane will be analyzed for using Method 8270C.

Data validation will be performed in accordance with the UFP SAP (Resolution Consultants, 2013).

Investigation derived waste accumulated during sampling activities will be collected, containerized, and staged at NWIRP Bethpage, for disposal off-site. All IDW activities will be done in accordance with the UFP SAP Addendum – *VPB and Monitoring Well Installation and Sampling* (Resolution Consultants, November 2013).

All non-dedicated sampling equipment (the pump and support cable and air lines which contact the sample, interface probes, etc.) must be decontaminated thoroughly each day before use ("daily decon") and after each well is sampled ("between-well decon"). Dedicated, in-place pumps and tubing must be thoroughly decontaminated using "daily decon" procedures

(outlined in the UFP SAP Addendum: *Groundwater Sampling Using Low Stress (Low Flow) Purging and Sampling Protocol* (Resolution Consultants, 2013)) prior to their initial use.

Table 1 provides a listing of the wells to be sampled beginning in December 2014 and their construction details.

Reporting

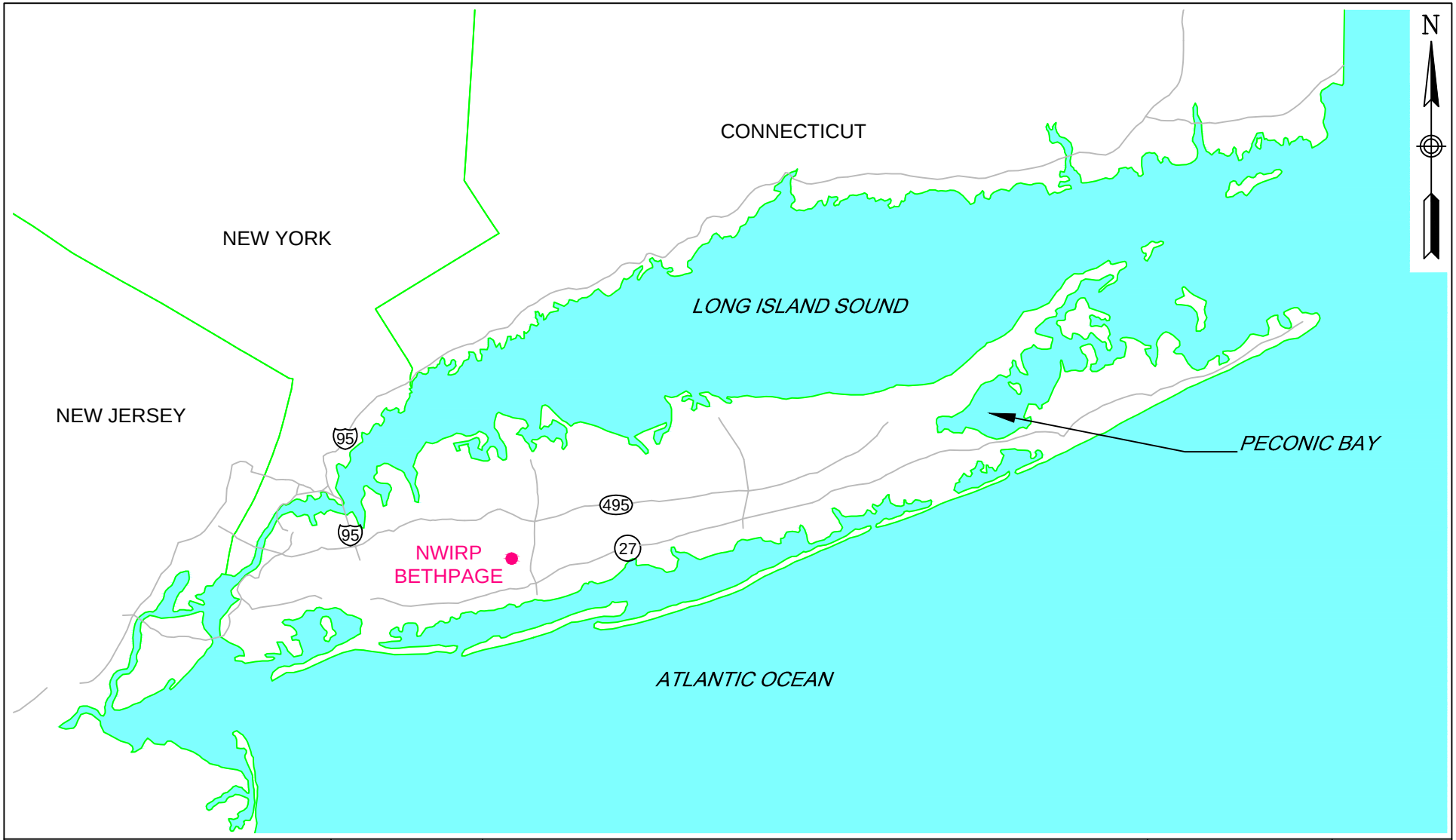
Following data validation, documentation of field activities and sample results will be compiled and presented in a Quarterly Groundwater Sampling Data Summary Report. The report will include a description of field activities and a tabular summary of the analytical results with an accompanying map. Appendices will provide documentation of the sampling records and data validation of the laboratory reports.

Tables

Table 1
Monitoring Well Construction
Quarterly Groundwater Sampling

Well	Total Depth (ft bgs)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Mid-screen (ft bgs)	Sump Length (ft)	**VPB Affiliation**
RE103 D1	645	62	6	630	5	VPB137
RE103 D2	673	65	6	663	0	
RE103 D3	735	71	7	720	5	
RE104 D1	375	35	3	360	5	VPB138
RE104 D2	735	71	7	720	5	
RE104 D3	785	76	7	770	5	
RE105 D1	554.9	53	5	540	5	VPB139
RE105 D2	755.9	73	7	740	5	
RE108D1	545	53	5	540	5	VPB142
RE108D2	655	63	6	640	5	
TT101D	350	32	3	335	5	VPB129
TT101D1	595	57	5	580	5	
TT101D2	765	74	7	750	5	
RE120D1	655	63	6	640	5	VPB 154
RE120D2	713	69	7	700	3	
RE120D3	765	74	7	750	5	

Figures



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SCALE IN MILES

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GENERAL LOCATION MAP
NWIRP BETHPAGE
BETHPAGE, NEW YORK

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EV	12/02/2014
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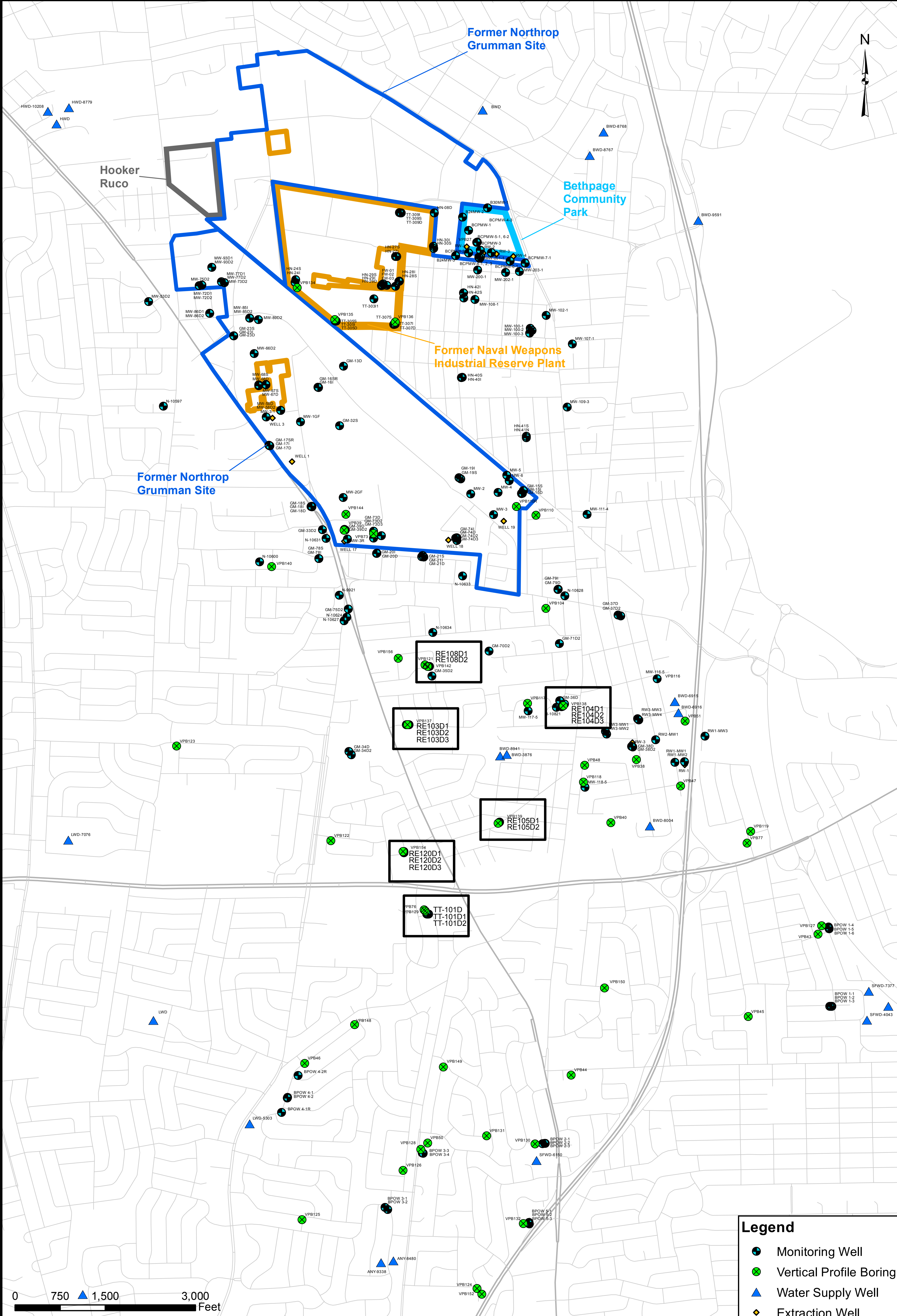

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QUARTERLY GROUNDWATER SAMPLING
WELL LOCATION MAP
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE, NEW YORK

CONTRACT NUMBER	CTO NUMBER
N62470-11-D8013	WE15
APPROVED BY EV	DATE 12/4/2014
APPROVED BY __	DATE __
FIGURE NO. 2	REV 0