#### CONTRACT TASK ORDER NO. 0096 DEVELOP AN IMPLEMENTATION PLAN FOR CONSTRUCTION OF A PUMP AND TREAT SYSTEM AT THE GM-38 OFFSITE AREA NWIRP, BETHPAGE, NY NTR: Lora Fly Project Manager: Stavros Patselas

# WORK ACCOMPLISHED DURING THE PERIOD OF JANUARY 24 THRU FEBRUARY 20, 2009:

- Building subcontractors began to construct office / control room with block wall, steel studs, and sheet rock. Extended potable water line beyond parking area limits and stop (see **Problems and Solutions**). Receive wet wells for stormwater.
- Received 95% of instrumentation for treatment system along with PLC cabinet.
- Electrical subcontractor received and set transformer pad, installed primary cable and telephone conduit. Energized temporary power inside building. Received and set MCC into control room.
- Mechanical subcontractor continued process trench excavation and installation of HDPE pipe from building to RW-2 and from building to RW-1/IW-1.
- Received documents requested in RFI to Grumman / Arcadis. Continue evaluation of Arcadis off-site groundwater investigation data as part of Grumman's community park investigation. TtEC continue set-up of GM-38 groundwater modeling to determine screened interval of RW-3 (see **Problems and Solutions**).
- Provided submittal to TOB DPW to connect into manhole to convey treated effluent into county recharge basin. Permission to discharge basin was granted by county but the manhole is owned by TOB.
- Received and began review of H2M letter regarding South Farmingdale Water District Plant No. 1 treatment system costs for construction and 30 year O&M.

# WORK PLANNED DURING THE PERIOD OF FEBRUARY 21 THRU MARCH 27, 2009:

- Complete installation building accessories such as trim, louvers, dampeners, flashing at roof / wall openings, and other.
- Establish parking area subgrade and install base layer of gravel. Install stormwater pipe and wet wells.

- Electrical subcontractor continues installation of electrical materials in process system trench, office / control room electric, and plant interior electric.
- Mechanical completes backfill and compaction of Route 135 trench and anchoring of treatment system equipment. Continue interior process piping.
- Continue assessment of impacts to RW-3 and system.

## TASKS REMAINING:

- Complete Phase 2 Full Construction of the Groundwater Remedial system.
- Start-up, testing, and shakedown of the treatment plant.
- Perform six months operation and maintenance of the treatment system.

## **PROBLEMS AND SOLUTIONS:**

- The drilling phase continues to be delayed due to the Navy's and Grummans' agreement to determine the impact to GM-38 system including RW-3. It was determined that Arcadis existing subcontract with TtEC will be terminated and TtEC will proceed to complete remaining Arcadis tasks. Submitted RFI to Grumman / Arcadis for data necessary to determine RW-3 and system impact. Begin to receive data on February 18, 2009.
- Navy real estate was working on easement for potable water connection on BWD property at Sophia St. BWD requested cooperative effort with Navy to potable water tie-in on N. Herman Ave., a residential street. Costs accrued to date for easement preparation and difference in construction costs to be submitted to BWD for review. BWD indicated that they would do the work within N. Herman Ave.

#### **SCHEDULE:**

• See attached

#### WASTE MATERIALS REPORT:

• Approximately 100 tons of asphalt / concrete mix to be transported for disposal to 110 Sand in Melville, NY.

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Early Start	Early Finish	% Comp	2003 2004	2005	2006	2007	2008	2009		2010
Phase 1 Grou	Indwater Remed	diation								
12SEP03A	12SEP03A	100	NAVY APPROVAL TO BEGIN	PREP OF COST ESTIMATE		1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1			1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1	
23SEP03A	23SEP03A	100	COST ESTIMATE PROVIDED	TO NAVY FOR REVIEW						
25SEP03A	25SEP03A	100	NOTIFIED FROM NAVY FUN	DS NOT AVAILABLE FY200	03				I     I	
19FEB04A	19FEB04A	100	I DATE OF MODIFIC	ATION AWARD		1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1			I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I	
23FEB04A	19MAR04A	100		UMENT REVIEW (TASK 1)	I     I	I     I			I     I	
22MAR04A	21MAY04A	100		WORKPLAN(LETTER REF	PORT)/ SHSP TO NA					
03MAY04A	28JAN05A	100		BASIS DSGN TSK2/PRE	P OF DRFT RMDL	DSGN PLN TK3			I     I	
24MAY04A	03SEP04A	100		EVIEW OF DRAFT WORKE	PLAN (LTR RPT)/SI					
07SEP04A	28SEP04A	100		'S DRAFT WRKPLN LTR RF	PT/HASP BAS'D RE	G COM'TS			I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I	
180CT04A	24NOV04A	100		BMT FNL WKPLN(LTR RP)	I) TO NAVY/ REGU	JLATORS				
17NOV04A	19NOV04A	100		PT. TSK2 MOB/ SETUP DEC	CON PAD	I     I	I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I	I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I	I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I       I     I     I     I     I     I	
22NOV04A	28DEC04A	100		] OPT. TSK2 DRILL, CONST	r & DEVELOP 3 MY	W'S AT RW-2				
22NOV04A	13MAY05A	100				SAMPLING			1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1	
20DEC04A	31DEC04A	100		OPTIONAL TASK 1 GEOT	ECHNICAL				1     1     1     1     1       1     1     1     1     1     1       1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1       1     1     1     1     1     1     1     1	
03JAN05A	07JAN05A	100		<b>OPT. TSK2 DRILL, CONS</b>	T 1 MW ON S. HEF	RMAN ST				
10JAN05A	28JAN05A	100		OPT. TSK2 DRILL & CO	ONST & RW-2	I     I		I     I	I     I	
31JAN05A	08FEB05A	100	I     I		DIAL DESIGN PLA				1 1 1 1 1 1   1 1 1 1 1 1   1 1 1 1 1 1   1 1 1 1 1 1   1 1 1 1 1 1	
07FEB05A	24FEB05A	100		OPT. TSK2 DRILL & C						
Start Date Finish Date Data Date		30SEP03 31DEC09 20FEB09	Early Bar Target Bar	C96P CONTRACT	TASK ORDER NO	Sheet 1 of 5				
Run Date	2	4FEB09 16:28	Progress Bar	ВЕТНРА	GE, NEW YORK					
			Critical Activity		AND TREAT SYS	ТЕМ				
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Early	Early	%	2003	004	2005	2006	2007	7	2008	2009	2010
Start	Finish	Comp			2005						2010
08FEB05A	14MAR05A	100			NAVY & 3RD PARTY I	REV'W OF DRFT RM	DL DSGN PLN	1			
24FEB05A	07MAR05A	100			LEAR GRUB & INST'	L ACCESS RD ON NY	SDOT ROW	PA)			
	111101/054	100									
14MAR05A	11NOV05A	100				DRFT RMDL DSN B	AS'D ON NAV	Y COM'TS & FLD			
14MAR05A	08APR05A	100			OPT.TSK2 DRILL &	CONST RW-1 & MW	IN NYSDOT				
18APR05A	24JUN05A	100			OPTIONAL TAS	SK 3 SAMPLING TRE	ATABILITY S				
25 A DD05 A	204 0005 4	100									
25APR05A	29APR05A	100			<b>RECOVERY WELL</b>	PUMP TESTS & INJI	ECTION WEL	L TEST			
02MAY05A	20MAY05A	100			🔲 OPT. TSK2 SITE F	PREDESIGN RESTOR	ATION				
02MAY05A	19MAY05A	100			DRILLINGI DEM	OBE OF PHASE 1					
11NOV05A	11NOV05A	100									
TINOVOJA	TINOVUSA	100			SBMI	F REVISED DRFT PL	N & SPECS TO	) NYSDEC & RAB			
14NOV05A	18JAN06A	100			<b>R</b>	EGULATOR/ PUBLIC	C REVIEW PE	RIOD			
Tentative Mee	tinas										
04AUG04A	04AUG04A	100		MEETINGS W/	REG/ NAVY						
23SEP04A	23SEP04A	100									
255EF04A	255EF04A	100		COMMUNI	Y WORK SHOP						
02NOV04A	02NOV04A	100		MEETIN	SS W/REG/ NAVY						
06APR05A	06APR05A	100			MEETINGS W/REG/	NAVY					
16JUN05A	16JUN05A	100									
IUJUNUJA	IOJUNOJA	100									
07JUN06A	07JUN06A	100									
02AUG06A	02AUG06A	100				MEETIN	G				
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16APR08A	16APR08A	100							MEETING		
10/11/100/1	10/11/100/1	100									
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Early	Early	%	
Start	Finish	Comp	
05NOV08A	05NOV08A	100	
Phase 2 Grou	ndwater Remed	liation	
27APR05A	27APR05A	100	
16MAY05A	26AUG05A	100	PROJ PLNS SHSP/QCP/TRAFFIC/WMP/E&S
29AUG05A	140CT05A	100	
170CT05A	280CT05A	100	RESPOND TO NAVY COMMENTS
310CT05A	11NOV05A	100	1   1
14NOV05A	18JAN06A	100	NYSDEC, RAB/TAC/ &PUBLIC REVIEW PERIOD
19JAN06A	23MAR06A	100	
24MAR06A	08MAY06A	100	FINALIZE AND SUBMIT DESIGN
Groundwater			
170CT06A	170CT06A	100	
18DEC07A	18DEC07A	100	I TOWN BOARD APPROVES REAL ESTATE
30JAN08A	30JAN08A	100	NAVY'S AUTHORIZATION TO PROCEED
16APR08A	16APR08A	100	
29MAY08A	29MAY08A	100	PRE-CONSTRCTION MEETING
02JUN08A	06JUN08A	100	<b>1</b> AIR STRIPPER RECON
23JUN08A	03JUL08A	100	TOWN SITEWORK (ACCESS RD AND E&S CONTROLS)
07JUL08A	11JUL08A	100	
Start Date		30SEP03	Fordy Perg C96P Sheet 3 of 5
Finish Date Data Date		31DEC09 20FEB09	Lary Bar CONTRACT TASK ORDER NO. 96
Run Date	24	FEB09 16:28	Progress Bar Critical Activity BETHPAGE, NEW YORK
			GM-38 PUMP AND TREAT SYSTEM
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Early Start	Early Finish	% Comp	2003	2004	2005 2006 2007			200'	7 2008	2009 2010
14JUL08A	29AUG08A	100				(MUA) CONS	T CONCRETE BL	.D FOUND	N/AIR STRPER WALL	
31JUL08A	31JUL08A	100								WHM CONTRACT AWARD
11AUG08A	170CT08A	100								(WHM) MOBILIZATION & SUBMITTALS
22AUG08A	27AUG08A	100								(WHM) TEMPORARY FENCE
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25AUG08A	29AUG08A	100								I (WHM) CLEARING & DEGRUBING
01SEP08A	170CT08A	100				(MI	JA) BACKFILL &	COMPACT	TO BLDING SUBGRADE	
03SEP08A	19SEP08A	100								□ (MUA) CONSTRUCT PIERS (FORMS & STEEL)
04SEP08A	09SEP08A	100								(MUA) EXCAVATE BLDING SUMP & PIERS
08SEP08A	24APR09	72				(WHM	) EXCAV/INSTAL	LATION O	F HDPE PIPING/TESTING	
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08SEP08A	12SEP08A	100								I (MUA) COMPLETE BLDING SUMP WALLS
12SEP08A	12SEP08A	100								(MUA) COMPLETE BUIDING FLOOR SUMP
030CT08A	030CT08A	100								(MUA) COMPLETE BUILDING GRADE BEAM
200CT08A	21NOV08A	100								(MUA) MAIN FLOORS COMPLETE
17NOV08A	24APR09	51								INSTALL EXTERIOR WATER
									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
17NOV08A	05DEC08A	100								🔲 INSTALL AIR STRIPPER, CARBON EQUP
17NOV08A	26DEC08A	100								IN STALL EXTERIOR SEWER
17NOV08A	05DEC08A	100					(WHM) REC/SET1	FING/ASSE	MBLING TREATMENT E	2011P 🔲 🔤 👘 👘 👘 👘
										I     I
20NOV08A	05DEC08A	100					JA) CONTROL RO	DOM FLOO	R & EQUIP PADS COMPI	
						—			· · · · ·	· · · · · · · · · · · · · · · · · · ·
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24NOV08A	13FEB09A	100		
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16FEB09A	27MAR09	0	INNERROOM CONSTRUCTION	NT I
TOPEDOJA	271014103	0		
05JAN09A	26MAY09	33	WHAD INCLATING BEACH DECORES DEDING & FLEC	
05JAN09A	20MA 109	33		
30JAN09A	30APR09	46	PLC PROGRAM & EQUIP. TESTING (INSTRUMENTATION)	
	20111103			
25MAY09	05JUN09	0		
			$\begin{bmatrix} 1 1 & 1 $	1 1 1
01MAY09	02JUL09	0	PLANT STARTUP AND SHAKEDOWN	
011014105	0230109	0		
25410100	1.644 0.00	0		
25JUN09	16JUL09	0	SPRING RESTORATION & DEMOBE	
03JUL09	31DEC09	0	REMEDIATION PLANT 6 MONTH O&M	
Drilling	1 1			
06APR09*	10APR09	0	DRILLING MOBILIZATION OF STTE	r Ì -
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13APR09	06AUG09	0		. I. I. I.
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20APR09	21AUG09	0	DRILLING WASTE MANAGEMENT	
20AI K09	21A0009	0		
27JUL09	31JUL09	0		
03AUG09	14AUG09	0	MONITORING WELL SAMPLING	
OM & M Manu	Jal			
20MAR09	23APR09	0	PREPARE AND SUBMIT DRAFT O&M  MANUAL TO NAVY 📕	
				. I I I
24APR09	21MAY09	0		. I. I. I.
				1 1 1
22MAY09	18JUN09	0	RESPOND TO COMMENTS ON O&M MANUAL	
22001109	10501105	0		
10111000	22111.00	0	SURMIT FINAL O&M MANUAL TO REGULATOR	
19JUN09	23JUL09	0	I I I I I I I I I I I I I I I I I I I	
Start Date		30SEP03	Early Bar C96P Sheet 5 of 5	
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