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NAS JACKSONVILLE
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PARTNERING TEAM MEETING MINUTES 13 NOVEMBER WITH UPCOMING AGENDA NAS JACKSONVILLE FL

1/15/2013

PARTNERING TEAM

NAS JACKSONVILLE PARTNERING TEAM MEETING MINUTES

November 13th and 14th, 2012

Jacksonville, Florida

Attendees:

Mark Peterson
Adrienne Wilson
Tim Curtin
Tim Flood, Facilitator
Sarah Reed, NAVFAC SE
Frank McInturff, Resolutions Consultants

David Grabka
Eric Davis - Gate/Timekeeper
Pete Dao - Chair
Julie Johnson – Scribe
Mike Singletary, NAVFAC SE

Mike Maughon, Tetra Tech
Dorothy Sifuentes, USGS

Tom Deck, Tetra Tech – Day 2

1.0 Team Meeting and Introduction

1.1 Team member greeting, introductions, and check in – Done
1.2 Assignment of Team Roles: Chair – Pete Dao;
Gate/Timekeeper – Eric Davis; Scribe – Julie Johnson
1.3 Read Team Ground Rules – Ground rules were read by team members and attendees.

2.0 Initial Agenda Items

2.1 Review, submit revisions to, and reach consensus on previous meeting minutes. Done

Consensus: Team members approved the minutes from the September 2012 meeting.

2.2 Report on Assigned Action Items and Parking Lot Items. Done.

2.3 NAVFAC presents current budget execution plan. Adrienne said for FY13 have only executed Building 101S sampling (awarded last week). Still striving for NRA Building 200 Wash Rack, sampling DRMO, Pesticide shop, PSC 48, and Hangar 1000 possibly in the spring. The High Power Turn up Pad (HPTP) RI will be awarded this year. Petroleum sites to be awarded include Gas Hill, FFTF, PCA 25, Hawkins (sample or SRCO). Also awarding for well abandonments and system demolitions to get done this year.

3.0 Agenda

3.1 Schedules/SCAP/Exit Strategy/FDEP Document Tracker/FFA SMP/ Petroleum SMP: The team was given a copy of the document schedule from Tetra Tech/CH2M Hill and the BOA document tracking schedule.

3.1.1 Team Development – Tim Flood – nothing this meeting. Tim said he would email a self-evaluation out for discussion next meeting.

3.2 OU 1– Tim Curtin

LTM Update and Landfill Maintenance – mowing is funded again. The PPV contractor wants to place a perforated pipe to drain stormwater. One part is in the LUC area which prohibits us from removing groundwater. Tim said that 99% of the time it will not be in the groundwater. Tim said it will only be in groundwater after a significant rain event. The contractor is asking for team approval to install this drain just under the ground surface. Is it groundwater or surface water? Mark said there has never been anything found in the surface water samples on the southern end of the ditch. Mike S. said the creek is lower than the groundwater. The language in the LUC RD

states no dewatering, but this instance is not dewater. The ditches are lower than the pipe. The surface use is grass, landscape. Mark P. said that the pipe would aide in preventing exposure. Dave G. wants more details of what they plan on installing. Mark P. suggested going to the site after the meeting Wednesday.

Discussion was revisited on day 2. Dave will have to understand the LUC language before he can make a determination on allowing this pipe to be placed at OU 1 for drainage. Dave would like to see a cross section of the placement showing the water table and specific language saying that there is no dewatering. Pete did not think the plan is in violation of any of the LUCs.

The discussion regarding a couple of missing wells came up. Tim C. said that Kevin W., Tetra Tech located the wells with a GPS. Mark checked with Kevin W. and the wells have been located but nothing has been scheduled for sampling. Jody with Solutions-IES responded to Adrienne and said that they will sample them in December (when sampling Building 101S and polishing ponds).

3.3 OU 3 – Tim C. gave Mark P. the topographic map from 1937 of NAS Jacksonville prior to NAS Jacksonville being there and prior to filling the OU 3 area with dredge spoils.

3.3.1 Groundwater Model Update – nothing to report

3.3.2 Vapor Intrusion Discussion – Eric Davis – Eric gave a brief review of the VI process to date for Dorothy's benefit.

<u>Vapor Intrusion</u>
Objective: The primary objective of this VI investigation was to collect and evaluate additional data to assess the completeness and significance of the VI pathway within 12 of the highest priority buildings out of 37 buildings identified as buildings of interest in the Phase I. Also, evaluated a number of emerging technologies, sampling methods, and attenuation factors.

- Phase I occurred in 2010
- Phase II work plan and UFP-SAP developed in 2011 – Screening Process and ID COPCs
- Phase II sample collection occurred in summer of 2012
  - Building surveys
  - Subslab, indoor air, outdoor air
  - HAPSITE/PID
  - Radon
  - Passive Devices
  - Vapor Pins
  - Navy Online VI Tool to assess VI potential
  - Approximately 140 samples sent to labs
  - Approximately 80 field measured samples
  - 220 data points to analyze, compile, evaluate
- A Selection of Findings
  - None of the 12 buildings exhibited significant (i.e., above screening criteria) vapor intrusion based on evaluation of the Phase II data.
  - Indoor air VOC concentrations detected above Air Intrusion screening levels were attributable to background sources unrelated to vapor intrusion.

- The subsurface VOC source strength was too low to result in current and future significant vapor intrusion in most of the buildings where subslab data were collected.
- HAPSITE
  - Provided an accurate and detailed snapshot of subslab soil gas conditions and reduced uncertainties related to high spatial variability in subslab soil gas concentrations.
  - The HAPSITE results, in conjunction with TO-15 results and building survey information, were useful for confirming the presence of an indoor, background trans-1,2-DCE source in Building 101.
  - Overall, there was very good agreement between both indoor and subslab HAPSITE data in comparison to the laboratory TO-15 data.
  - Comparability of the analytical results for the passive-diffusion TO-17 method with the TO-15 method showed relatively poor comparability for the 24-hour samples, likely due to the low mass absorbed to the passive diffusion media after this relatively short sample duration. The results using a 14-day passive sampling duration and TO-17 analysis show much better comparability with 24-hour TO-15 results.

The VI Evaluation Report is in press and will be issued week of Nov 12

Eric discussed the use of the Navy online VI tool. Mike S. said they just had a data call and they are trying to get data populated into this tool.

Mike S. said Buildings 101 and 103 were investigated for indoor sources of TCE. It was found that trans-1,2-DCE was used in day to day operations at Building 101. At Building 103 looking for a source of TCE and they had used it in aerosol can form, but have since discontinued using it. Mike S. said they are going to hang a passive sampler in each room (2 canisters) for 14 days to make sure there are no longer detections. Mike S. said they are trying to show that they are used as occupational use and that their number will be used instead of them meeting the regulatory number.

Mike S. would like to see isoconcentration contours for all the chemicals not just PCE.

3.3.3 Cross Sections update – Mike Maughon. Mike reviewed the updates to the cross sections reviewing the changes made according to the team comments.

Mike S. told Mike M. that he would like trans-DCE added around Building 103 cross section.

Action Item: Mark to get a preliminary data dump on the well sampling and provide it to Mike and Adrienne by 11/30/12.

3.3.4 ESTCP – Mike Singletary. Mike briefly discussed plans for a new technology EK System (electrode with MMO coated titanium rod installed into 4-inch PVC electrode wells and screened to target the clay layers) demonstration/pilot study that should be funded next year. He said he will have Geosyntec call in for the January 2013 meeting to discuss further.

Showed the technical approach and system design.

Mark Peterson said that Geosyntec may have used this technology at NASA and suggested that they could have already obtained previous underground injection control (UIC) permits in Florida.

Action Item: Dave G. to find out the process will need to follow to get a UIC permit for the pilot study proposed and report back to Mike S. and Adrienne.

3.4 OU 6 (PSC 52) Hangar 1000 – nothing new to report. Tetra Tech conducted annual monitoring at Hangar 1000 in October 2012.

3.5 OU 7 PSC 46 Update – DRMO – Eric nothing new to report. The LUC RD draft rev. 1 was sent out to the team in October 19, 2012.

3.6 OU 8 PSC 47 – Eric Davis – Eric said they are preparing to issue the annual report, the document is currently in internal review and should be issued to the Navy (12/18/12). The results are similar to the past 4 to 5 years. There are two plumes and they are overall stable. The plumes haven't changed shape or migrated.

- This annual groundwater monitoring report documents two semiannual sampling events completed during the third year of post-IRA groundwater monitoring. Groundwater analytical results are evaluated to assess: 1) the potential of the unsaturated zone as a continuing source of contaminant leaching, 2) plume stability, and 3) natural attenuation of contaminants in groundwater.
- Semiannual events performed in October/November 2011 and April/May 2012
- 27 wells were sampled
- Results indicate:
  - 2 plumes (Northern and Southern centered over the two buildings at NECE)
  - Indicate that although individual contaminant concentrations within the northern and southern contaminant plumes continue to fluctuate, the contaminant plumes are stable.
  - Contaminant plumes have not migrated beyond the current delineated extent.
  - Pesticides and arsenic tend to persist in the environment due to their tendency to sorb to soil particles under favorable geochemical conditions.
  - Geochemical conditions influence solubility/dissolved concentrations of some contaminants
  - It appears soil contaminants are not a continuing source for groundwater contamination through contaminant leaching

- AGVIQ-CH2M HILL is in talk with the Navy to determine the path forward, which may include additional soil and groundwater sampling to better align with the EPA Metals MNA Guidance in preparation for the 5 year review.

3.7 OU 9 – PSC 45 – Building 200 – Mark P. has the draft RI report and he is reviewing. The plan is to issue to the team for review by the end of November 2012.

Dave G. brought up his concern regarding carbon TET that is not being addressed. Adrienne said that it must be determined where it came from and it would involve funding. Add to parking lot.

3.8 OU 10 – MRP Sites – Draft Final Tier II UFP SAP was sent to the Team November 9, 2012. Tim C. and Adrienne said that Barb Becker is planning on being on site in January 2013.

3.9 OU 11 - PSC Sites with LUCs and no RODs and PSC 55– Second phase of sampling will start in the next month or so.

3.10 Petroleum Sites

3.10.1 Gas Hill (PCA 4) – Eric Davis – The Gas Hill report was issued to the Navy a couple of weeks ago. Covered two semi-annual events (Oct-Nov and April-May). Southern boundary came up clean. The site is now bound with compliance wells, no free product, and overall concentrations are on a downward trend.

Semiannual events performed in October/November 2011and April/May 2012

- Two additional wells installed on southern boundary of site, as requested by FDEP
  - Results indicate that the site is bound with compliance wells and Eric said they have identified source wells
  - No free product found

- Overall concentrations continue downward trend
- Eric said with new data they remodeled assimilative capacity, mass removal rate, time of remediation (TOR), and NA parameters which all indicate MNA effectiveness, therefore
- No active remedial action required
- Have accomplished the FDEP prerequisites for obtaining an MNA Approval Order which will get the team closer to NFA with LUCs. Identify source and compliance wells, calculate TOR, demonstrate downward trends

- Annual Groundwater Monitoring Report issued to Navy on 11/4 or 11/5
- The site is transitioning over to Solutions, IES

3.10.2 Hawkins's Property – nothing to report. Solutions-IES took samples in June 2012 and Adrienne sent Dave, Tim, and Mark the data. Looking for aviation type fuel. There was one naphthalene hit and everything else is gasoline constituents. So Adrienne said that the majority of the contamination is not coming from JP-5. The naphthalene is right on the border of the site with the Kerr McGee site; all other constituents are currently below GCTLs. Dave said it's an exceedance that is associated with JP-5. Mark asked Dave if the Navy could request SRCO with or without conditions, what is it going to take to close out this site. If that one hit wasn't there would it make a difference? Adrienne asked if we sampled again and the naphthalene wasn't there would that get an SRCO without conditions. Dave said he cannot make a decision from the one point. He did say that the condition is much improved. Mark said there has been a lot of work done on this site, remediation, treatability study. Dave wants to see at least one more round of samples before he can comment on path forward. Mark said samples should be taken from all the boundary wells again and 11A.

Action Item: Frank M. is going to ask Travis Fuller, AECOM for an update on the status of the Kerr McKee property.

Frank reported by via email:
"I talked to AECOM's PM (Travis Fuller) on Kerr McGee (KM) site and got their latest PARM report attached (9/2012) … includes new data from May and August 2012 sampling events.

They did sample MW15A but not MW16B in 2012. I did confirm with AECOM that these are Navy's wells but based on map appear to be within KM site property boundary.

Naphthalene was detected prior to August sampling event above GCTLs at KM wells MW1, MW4, MW5, MW6, and MW10. But in latest August event all samples at these locations were reported below the GCTLs for Naphthalene and all other COCs.

AECOMs sampling of MW15A in 2011/2012 events were all reported well below the Naphthalene GCTL.

Travis said they received COJ EQD's approval of the 9/2012 report and recommendations this week. Their path forward is to get another round of sampling below GCTLs to pursue NFA… 4Q sampling was supposed to happen in November but has not been funded yet."

Previous action item was to determine if Hawkins Site has a Brownfield Site Rehabilitation Agreement (BSRA) and Mark and David G. both said there is no BSRA for this site.

3.10.3 PCA 25- Boat House Area – nothing to report.

3.10.4 Kemen Test Cell – Site UST 000026 (PCA 26) – not funded yet. Nothing to report.

3.10.5 Firefighter Training Facility (OU 2) – nothing to report.

3.11 PSC 38 – Torpedo Rework Facility – Second phase of sampling was conducted wells have been installed and sampling is complete. Waiting for results.

3.12 PSC 56 – NEX Gas Station – Nothing to report. Site has been transferred to the IR Program. Not funded.

3.14 PSC 57 S-3 High Power Turn-up Pad – UFP SAP DQOs Frank M. and Todd H.

Scoping Presentation – PSC 57: S-3 High Power Turn Up Pad

- Discovered petroleum contamination during demo of old A7 HPTP, possibly around or beneath the pad.
- The new pad is in the same general location.
- In 2002, Tetra Tech conducted a site assessment in accordance with 62-770, F.A.C.
    - A soil vapor assessment
    - DPT soil Sampling
    - DPT groundwater sampling
    - Monitoring well installation and sampling
- Over half the borings had organic vapor readings >50 ppm
- Groundwater flow (2002) was generally towards the east to a larger storm water ditch.
- Problem statement: Results generated during previous investigations, indicate that soil and groundwater have been impacted by historical operations; however, the current dataset is inadequate to support a decision concerning what additional action, if any, is required.
- Data limitations:
    - The data is approximately 12 years old so it is not known whether soil and groundwater chemical concentrations have attenuated, remained the same or increased in the areas previously sampled.
    - Soil samples were not analyzed for chlorinated hydrocarbons.
- Study Goal: Determine whether constituents previously detected are still present and assess potential threats to human health and the environment at the Site through a screening level evaluation of the data.
- Proposed Soil Sampling Effort:
    - Collect soil samples from up to 13 boring locations
    - Samples will be collected for analysis from 0 – 0.5 ft, 0.5-2ft, and 2-4 ft depth intervals (depth to groundwater permitting).
    - Samples will be submitted to a fixed based lab and analyzed for VOCs via Method 8260B and PAHs by Method 8270C. (Dave G. mentioned that 8270C covers more than PAHs, he said it covers all the SVOCs as well.)
- Proposed Groundwater Sampling Effort:
    - Resample the five existing permanent wells if they can be located. Only MW01 and MW04 were located during a recent site visit
    - If necessary, install and sample up to three temporary wells to replace any permanent wells that can't be located
    - Submit samples to a fixed based lab and analyze for VOCs via Method 8260B and PAHs via Method 8270C.
- Tim C. asked when they anticipate doing the field work. Todd said late spring or early summer.
- Dave G. asked if there were any issues with metals (i.e., lead). Todd said that lead was included in the previous investigation and no issues were found or identified.
- Mark P. asked if Todd had thought about MNA parameters/analyses. Todd said if there is something easily/cheaply collected while out there yes, but have not built that in.
- Dave G. said next step is the SAP.

The presentation is provided as an attachment to the final meeting minutes.

4.0 Miscellaneous

4.1 Proposed Construction Update – Tim Curtin – Tim gave an update of proposed construction and current construction projects.

- The Seabees are building restrooms at the golf course.
- The marina project is going strong. The old yacht club has been demolished.
- Planning on building additional cottages south of the golf course club house.
- JEA has a wastewater drainage pipe next to NAS Jacksonville. The plan is to use JEA's effluent and run it through the station's wastewater treatment plant to make the plant more efficient. They plan on spraying effluent near the south antenna farm.
- Security wants to put in an ATV training course.
- BAMS is building a training facility. Controlling unmanned planes over the ocean.
- After November there are plans to repair the runway. All fixed wing flights will be diverted to Cecil Field. It will take approximately 13 months.
- Planning a project to stabilize shoreline on Mulberry Cove. It will be a porous concrete type material.
- Aerostar has been working at the wastewater plant with the sludge handling.
- Building 189 and 190 are going to be enclosed (walls are going to be installed) should be done in the spring or summer.
- New cell phone antenna on the water tank near Casa Linda Lake.
- Reminder, IDW must be picked up within a week of accumulation or inspected weekly. If you generate it call Tim and he will get them picked up.
- Tim wants to get Jane to the January meeting to discuss the permit.
- Won the region installation excellence award and the skipper thinks the station can win again.
- New contact at FRC is Bruce Mobley, Peter Gallant is no longer the point of contact.

4.2 Tier II Update – Sarah Reed. Last meeting was September 2012. Discussed five-year reviews. Sarah said that Kim with FDEP wanted to discuss more about the reorganization at DEP. Several managers are leaving EPA. Brian Syme is now RPM for Key West and Dana Hayworth is RPM for Mayport. Sara will provide guidelines/format for Tier II presentations for distribution to the team (i.e., timeline/limits). No major concerns. Petroleum SMP is revised, Arnie is working on the revised exit strategy. The Exit Strategy should be a little more user friendly. The Tier II team developed a form to use for elevating issues to Tier II. Sarah said this form could be used without consensus, but the team should use it together. It can be used by one or more team members.

NAS Jacksonville is tentatively scheduled for December 2013. Next meeting is December 11-12, 2012.

May 21-22, 2013 is date for RITS.

Discussion regarding the no meeting at hotels, contractor's office, meeting rooms ensued. Sarah will hopefully have more clarification soon.

4.3 Institutional Controls Implementation Plans Update – Tim Curtin - Nothing new to report.

4.4 RCRA Activities – The RCRA department is pushing to have a pre-application meeting/meetings (permit application) 3-4 months prior, to identify any major outstanding issues before the application goes in.

Jane is working on the permit process.

4.5 Exit Strategy Review – **BOLD ALL CHANGES.**

4.6 BOA Contracts Update and Schedule – Adrienne provided a spreadsheet with the document status on day 1.

4.7 CNO Award – Tim said the station could not apply for an award due to NOV this year but the team could apply next year for a team award.

4.8 NIRIS Training – Tom Deck – Tetra Tech. Tom gave an overview of what is NIRIS. Tom also reviewed the public portal for MCAS Cherry Point. NAS Jacksonville doesn't have a page on the public portal.

Action Item: Tom Deck to find out if the administrative record live update or how often is it updated on the public NAVFAC public portal.

Tom Deck response to action item:

The Administrative Record's screen provides access to records that have been tagged as publicly available within the Naval Installation Restoration Information Solution (NIRIS). These documents are typically provided for viewing through the Administrative Record File searchable database on the NAVFAC portal. RPMs are encouraged to contact their RDM to determine what record files, if anything, should be made available through this interface.

RPMs can choose to display full metadata and make PDF files accessible for viewing and download. Alternatively, RPMs may decide to provide only the metadata summary (such as record number, type site, date, file size, document title, and author affiliation) for installation records. In this case, a user would receive a notification after clicking on a record file that would instruct he or she to contact the installation PAO for document access information. For certain installations, RPMs may not wish to utilize this system for public viewing of administrative records.

If applicable, the Administrative Record tab should contain a link to the searchable database and include a disclaimer regarding the sensitive nature of the files. PAO contact information should also be provided as reference for user issues regarding support, access to additional information, document review, and comment & concern conveyance. An installation specific PAO can replace the contact information provided in the public website templates. An RPM should provide this data to the technical POC, which would include an address, phone number and e-mail address, but not specify an individual by name.

So to make a long answer short the Navy can choose what documents (or metadata) to be presented on the public website and that information is directly from NIRIS.

5.0 Meeting Closing

5.1 Review Meeting Consensus Items – Done

5.2 Review Meeting Understandings – None

5.3 Review Action Items – Done

5.4 Next Meeting Proposed Agenda Changes

5.5 Set the future meeting dates in advance.

Meeting Date	Meeting Time	Location	Meeting Chairman
1/14/13 1/15/13	1 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	Jacksonville	Eric Davis
3/12/13 3/13/13	1 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	Jacksonville	Dave Grabka
5/23/13	8:00 am to 5:00 pm	Jacksonville	Todd Haverkost
7/23/13 7/24/13	1 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	TBD	Mark Peterson
9/17/13 9/18/13	1 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	TBD	Adrienne Wilson
11/12/13 11/13/13	1 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	TBD	Tim Curtin

5.6 Set the next meeting location, duration, and roles

- Location – Jacksonville
- Dates – January 14-15, 2013
- Duration – two half days
- Chair – Eric Davis
- Gate/Timekeeper – Dave Grabka
- Scribe – Julie Johnson

5.7 Facilitator Plus/Deltas – Done

Plus

Dorothy S.
NIRIS training
1937 TOPO Map
Chocolate Chip Bagels

Deltas

No Hal
Team's lack of Topo envy
Last meeting at Tetra Tech office
No training from Tim Flood

Site	CONSENSUS ITEMS
	Team approves meeting minutes from September 2012 meeting
Agenda Item No.	**PARKING LOT**
	A potential success story, identifying plume reduction project at OU 3 Area A, which will reduce requirements for HAZWOPER training (CNO award due in December 2012). Team due every other year and the installation done every year.
	Yellow Water Weapons Housing Area – Dave Grabka wants to discuss this. Part of Site 15 (sweeping for MEC) Natural Resource Corridor. Public Safety. Tim said the station is looking at getting rid of that area. Tim said nobody wants the road (causing hold up). Dave said the main concern is the part of yellow water Site 15 extends out to the area between the ball field and the old fence line. Confirm that the LUCs will be acceptable for both sites. LUC = only good for a pass through (hiking, biking, horseback riding; no attractors). Tim checking on status of transfer (November 2012). Tim said it has to be approved by congress.
	Discuss CNO Award.
	Building 200 Wash Rack Carbon TET associated with PSC 45.

ACTION ITEMS

Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
Action Items from May 15 - 16, 2012 Meeting					
A-30512	Eric	Working	Next Meeting	PSC 47	Eric to meet with Adrienne and Mike S. regarding the MNA /metals evaluation at PSC 47 by next meeting.
Action Items from September 6, 2012 Meeting					
A-50912	Laura S	Working	Next Meeting	OU 3, VI discussion	Laura S. to provide the Jacksonville Partnering team with the information regarding the Colorado EPA Region 8 VI study, summa canister vs. what other type that was 20 percent the cost of summa canister.
Action Items from November 13-14, 2012 Meeting					
A-11112	Tim Curtin	Done	Next meeting	Yellow Water	Tim C. to ask Matt Schellhorn about the status of the Yellow Water Weapons Housing Area transfer.

ACTION ITEMS					
Action Item No.	**Responsible Party**	**Status**	**Due Date**	**Site**	**Action Item**
A-21112	Tim Curtin	Done		Golf Course	Tim C. to provide Todd and Frank with the names of point of contacts at the Golf Course.
A-31112	Frank McInterff	Done	Next meeting	Hawkins Property	Frank to ask Travis Fuller, AECOM for an update on Kerr McKee site.
A-41112	Tom Deck	Done	Next meeting	NAVFAC Public Portal	Tom Deck to find out if the administrative record live update or how often is it updated on the public NAVFAC public portal.
A-51112	Mark P	Done	11/30/12	OU 3	Mark to get a preliminary data dump on the well sampling and provide it to Mike Singletary, Tim and Adrienne.
A-61112	Dave G.	Done	By next meeting	OU 3 Proposed EK System Layout	Dave to find out the process will need to follow to get a UIC permit for the pilot study proposed and report back to Mike S. and Adrienne. *Email from Dave G. dated 1/3/13:* *Team, I had an action item to find out the UIC permit process for the ESTCP project described in 3.15.1 of our last NAS Jacksonville meeting minutes (below in red). I have found the following contacts with our UIC Section:* *George Heuler George.Heuler@dep.state.fl.us 850-245-8657* *Cathy McCarty Cathleen.McCarty@dep.state.fl.us 850-245-8654* *The Department's UIC web page is at:* *http://www.dep.state.fl.us/water/uic/index.htm* *I can't tell from the very limited information I have on the technology whether anything (such as an electrolytic solution or other solution) is actually going to be injected or whether it is just an electrical current being applied to the aquifer, but the contacts above will have the answers as far as UIC requirements.*

NAS Jacksonville Team Agenda
Jacksonville, Florida
January 14th and 15th, 2013

Chair – Eric Davis
Gate/Timekeeper – David Grabka
Scribe – Julie Johnson

	Item	Description	Presenter	Time
	1.0	**TEAM MEETING AND INTRODUCTIONS**	Team	
	1.1	Team member Greeting, Introductions, and Check-in; Guest Introductions	Team	
	1.2	Assignment of Team Meeting Organization: Chair, Gate/Time Keeper, Scribe	Chair	
	1.3	Read Team Ground Rules	Team	
	2.0	**INITIAL AGENDA ITEMS FOR EACH MEETING**		
	2.1	Review, submit revisions to, and reach consensus on previous meeting minutes	Team	
	2.2	Reports on assigned action items and parking lot items	Team	
	2.3	NAVFAC presents current budget execution plan	Adrienne	
	3.0	**AGENDA**		
	3.1	Schedules/SCAP/Exit Strategy/FDEP Document Tracker/FFA SMP/Petroleum SMP, FFA Review	Team	
		3.1.1 Team Development	Tim Flood	
	3.2	OU-1	Solutions-IES	
		3.2.1 LTM Update PSC 26 & 27 and Landfill Maintenance		
	3.3	OU-3		
		3.3.1 Groundwater Model Update	Donald	
		3.3.2 Vapor Intrusion Update	Eric	
		3.3.3 Geosyntec Pilot Study Discussion EK - David Reynolds teleconference and Rachel Klinger	Geosyntec	3pm Monday
		3.3.4 Area A	Solutions-IES	
	3.4	OU-6 – PSC 52 – Hangar 1000	Donald	
	3.5	OU-7 – PSC 46 DRMO update	Eric	
	3.6	OU-8 – PSC 47 – Pesticide Shop	Eric	
	3.7	OU-9 – PSC 45-Building 200 Wash Rack (groundwater only)		
	3.8	OU 10 - MRP Sites		
	3.9	OU 11 - PSC Sites with LUCs and no RODs and PSC 55 –		
	3.10	Petroleum Sites		
		Gas Hill	Solutions-IES	
		Hawkins	Solutions-IES	
		PCA 25	Solutions-IES	
		Kemen Test Cell		
		Firefighter Training Facility (OU 2)	Solutions-IES	
	3.11	PSC 38 -	Alan	
	3.12	PSC 56 – NEX Gas Station	Alan	
	3.13	PSC 57 S-3 High Power Turn-up Pad	Alan	
	3.14	OU 5 – PSC 51	Solutions-IES	
	4.0	**MISCELLANEOUS**		
	4.1	Proposed Construction Update	Tim	
	4.2	Tier II Update		

	Item	Description	Presenter	Time
	4.3	Institutional Controls Implementation Update	Tim	
	4.4	RCRA Activities –	Jane	Monday 1:30
	4.5	Exit Strategy Review	Mark	
	4.6	BOA Contracts Update – Solutions-IES Brian Rebar	Tim/Adrienne	
	4.7	CNO Award	Tim	
	5.0	**MEETING CLOSING**		
	5.1	Review Meeting Consensus Items		
	5.2	Review Meeting Understandings		
	5.3	Review Action Items		
	5.4	Next Meeting Proposed Agenda		
	5.5	Set Dates for Future Meetings		
	5.6	Set the Next Meeting Location, Duration, and Roles		
	5.7	Facilitator Plus/Deltas		

NAS Jacksonville Partnering Team Document Review Status

Date of Status: 14-Nov-2012

No.	Document Name	Distribution (email or hardcopy)	Date Submitted (or to be submitted)	Deadline for Comments of draft (45 days to comment)	FFA Deadline for Comments of draft (90 days to comment)	Navy Deadline for Redline & RTC& draft final (45 days)	Navy Deadline for draft final submittal (60 days)	Navy Deadline for Extension Letter (10 days prior to deadline for Final or 20 days after DF submittal)	Deadline for Final letter of approval (30 days) **	Comments Received from				
										FDEP	EPA	NAVFAC SE RPM	NAVFAC SE Chemist	NAS JAX
	Tetra Tech Documents													
1	Draft OU 4 LUC RD (email to Pete Dao) Sent hardcopy 2/2/12	email 12/30/11 hard copy (2/2/12)	30-Dec-2011									X	NA	X
2	Draft OU 3 LUC RD	hard copy	30-Jan-2012									X	NA	X
3	Final OU-1 LUCRD	hard copy	30-Jan-2012								X	X	NA	X
4	Final Annual Monitoring Report - Hangar 1000 - RTC from team	hard copy	10-Oct-2011									X	NA	X
5	Draft-Final Tier II Sampling and Analysis Plan for Munitions Response Program RI of Former Machine Gun Range Complex	CD and hard copy	6-Nov-2012		**11-Jun-2012**	**9-Sep-2012**	**24-Sep-2012**	**14-Oct-2012**						
6	Draft Potential Source of Contamination (PSC) 55 SI Report	hard copy	31-Aug-2012											
7	Dft-Fnl Response to Comments and Redline Site Assessment Report for PCA 25 (CTO 0003) w/ MNA Work Plan	hard copy	10-Sep-2012								NA			
8	Potential Source of Contamination (PSC) 45 RI Report	hard copy	30-Dec-2012											
9	Potential Source of Contamination (PSC) 38 RI/FS Report	hard copy	30-Jan-2013											
	CH2MHILL Documents													
1	Draft Final Building 106 AS/SVE System Decommissioning Work Plan	email	5-Jul-2011	NA	NA	NA	NA	NA	NA			X	X	X
2	Draft Final VI Work Plan	NIRIS and HC replacement pages	24-May-2012							X				
3	Draft Final VI UFP-SAP	NIRIS and HC replacement pages	24-May-2012							X				
4	Draft Final LUC RD - DRMO	hard copy	30-Jan-2012	NA	NA	NA	NA	NA	NA			X	X	X
5	DRMO Letter to EPD Stating Start Date of Remedy	email	March? Letter Prepared by HILL, to be submitted by Navy	NA	NA	NA	NA	NA	NA	NA		X	X	X
6	Draft Final Pesticide Shop Work Plan Revision XX (JM40)	email	29-Jul-2011	NA	NA	NA	NA	NA	NA			X	X	X
7	Draft Final Building 106 AS/SVE System Decommissioning Construction Completion Report	hard copy	30-Sep-2012	14-Nov-2012	29-Dec-2012	29-Dec-2012	13-Jan-2013	2-Feb-2013	13-Mar-2013					
8	Draft 2012 Gas Hill Annual Groundwater Monitoring Report	hard copy	30-Sep-2012	14-Nov-2012	29-Dec-2012	29-Dec-2012	13-Jan-2013	2-Feb-2013	13-Mar-2013					
9	Draft 2012 Pesticide Shop Annual Groundwater Monitoring Report	hard copy	30-Sep-2012	14-Nov-2012	29-Dec-2012	29-Dec-2012	13-Jan-2013	2-Feb-2013	13-Mar-2013					
10	Draft OU3 Vapor Intrusion Evaluation Report	hard copy	31-Oct-2012	15-Dec-2012	29-Jan-2013	29-Jan-2012	13-Feb-2012	5-Mar-2013	13-Apr-2013					
11	Draft DRMO RACR	hard copy	19-Apr-2012	3-Jun-2012	18-Jul-2012	1-Sep-2012	16-Sep-2012	6-Oct-2012	5-Nov-2012			X	N/A	X
12	Draft DRMO Project Completion Report	hard copy	9-Jan-2012	23-Feb-2012	8-Apr-2012	23-May-2012	7-Jun-2012	27-Jun-2012	27-Jul-2012			X	N/A	X
13	Draft DRMO After Aciton Report	hard copy	9-Jan-2012	23-Feb-2012	8-Apr-2012	23-May-2012	7-Jun-2012	27-Jun-2012	27-Jul-2012			X	N/A	X

X = Comments have been received from this reviewer
Blank = No comments have been received from this reviewer
Shaded - Documents to be submitted in the next 30 days.
NA = no review required by this reviewer.

** The regulators will issue a letter approving the draft-final as final if no dispute resolution.

FFA Review time restrictions: 22-Mar-2012 21-May-2012

NAS Jacksonville Partnering Team Document Review Status

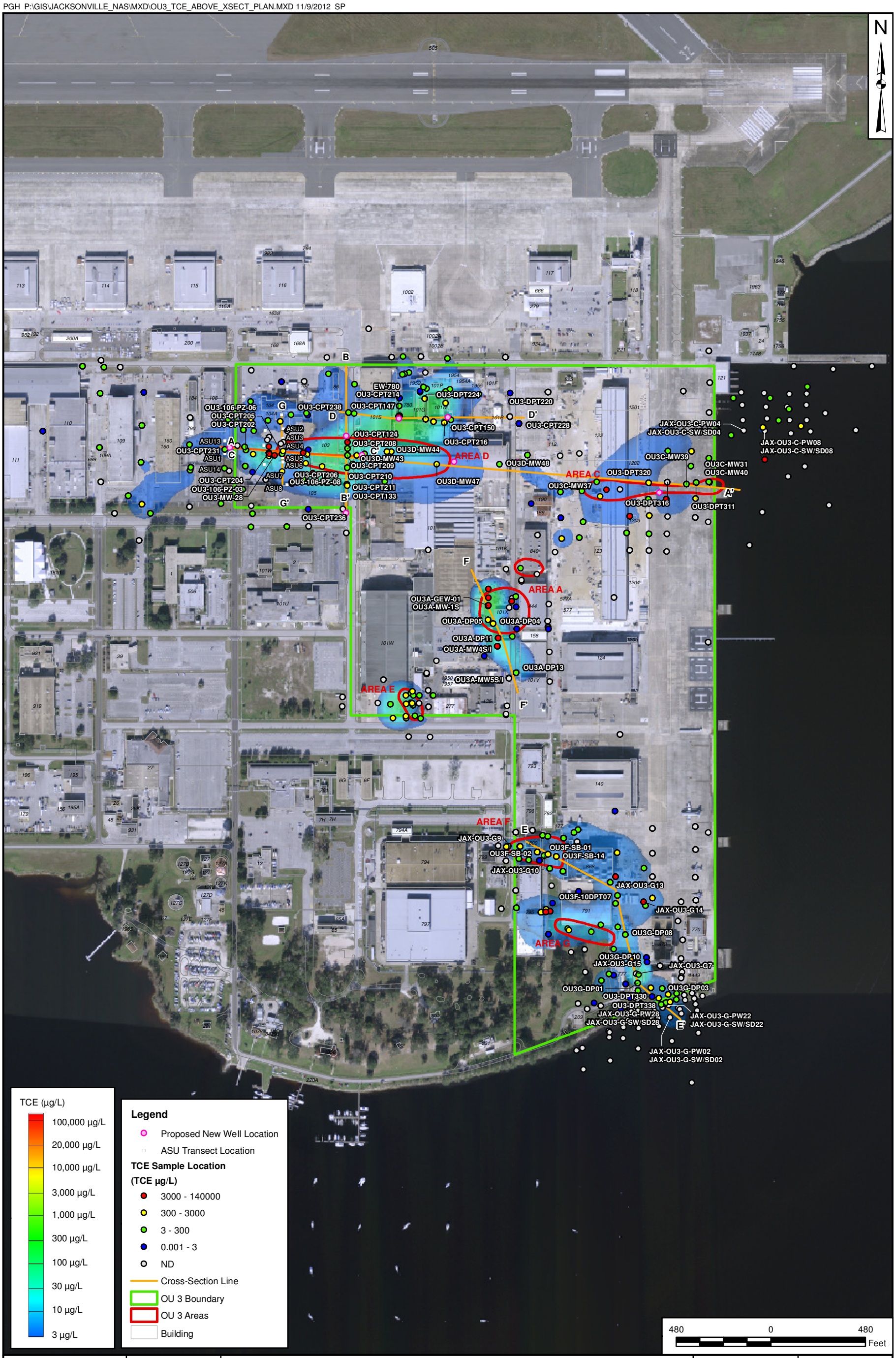
Date of Status: 08-Nov-2012

No.	Document Name	Distribution (email or hardcopy)	Date Submitted (or to be submitted)	Deadline for Comments of Draft (45 days to comment)	FFA Deadline for Comments of Draft (90 days to comment)	Navy Deadline for Redline & RTC & Draft Final (45 days)	Navy Deadline for Draft Final Submittal (60 days)	Navy Deadline for Extension Letter (10 days prior to deadline for Final or 20 days after DF submittal)	Deadline for Final letter of approval (30 days) **	Comments Received from						Solutions-IES To Do	NAVFAC To Do	Budget	Invoiced	Remaining Budget
										FDEP	EPA	NAVFAC SE RPM	NAVFAC Legal	NAVFAC SE Chemist	NAS JAX					
			Solutions IES	LTM																
1	B101S APP/HASP - Complete	Draft: email Final: HC+CD	23-Mar-2012 8-Jun-2012	7-May-2012	21-Jun-2012	5-Aug-2012	20-Aug-2012	30-Aug-2012	9-Sep-2012	NA	NA	NA	NA	NA	X			$ 35,077.00	$ 22,202.00	$ 12,875.00
2	B101S UFP SAP - Complete	Draft: email Draft Rev 2: HC+CD Final: 4 HC+CDs	23-Mar-2012 6-Jun-2012 17-Aug-2012	7-May-2012	21-Jun-2012	5-Aug-2012	20-Aug-2012	30-Aug-2012	9-Sep-2012	NA	NA	X	NA	X	X					
3	B101S Groundwater Monitoring Results, June 2012 - Complete	Draft: email Final: 4 HC+CDs	18-Jul-2012 19-Jul-2012	1-Sep-2012	16-Oct-2012	30-Nov-2012	15-Dec-2012	25-Dec-2012	4-Jan-2013	NA	NA	NA	NA	NA	X	Perform December 2012 sampling event				
4	B101S Groundwater Monitoring Results, December 2012	Draft: email Final: 4 HC+CDs	28-Feb-2012	13-Apr-2012	28-May-2012	12-Jul-2012	27-Jul-2012	6-Aug-2012	16-Aug-2012	NA	NA	NA	NA	NA						
5	FFTF APP/HASP	Draft: email Final: HC+CD	25-Jan-2012	10-Mar-2012	24-Apr-2012	8-Jun-2012	23-Jun-2012	3-Jul-2012	13-Jul-2012	NA	NA	NA	NA	NA	X	Submit Final APP/HASP with Final UFP SAP				
6	FFTF UFP SAP	Draft: email Draft Rev 2: HC+CD Final: 4 HC+CDs	25-Jan-2012 26-Apr-2012	10-Mar-2012	24-Apr-2012	8-Jun-2012	23-Jun-2012	3-Jul-2012	13-Jul-2012		NA	X	NA	X	X	Incorporate comments into Draft Final UFP SAP when received and submit Final	Request comments from FDEP.	$ 32,387.00	$ 14,193.50	$ 18,193.50
7	FFTF Semi-Annual Groundwater Monitoring Report (September 2012)	Draft: email Final: 4 HC+CDs	30-Nov-2012	14-Jan-2013	28-Feb-2013	14-Apr-2013	29-Apr-2013	9-May-2013	19-May-2013		NA		NA	NA		Tabulate data and prepare report.				
8	FFTF Semi-Annual Groundwater Monitoring Report (March 2013)	Draft: email Final: 4 HC+CDs	5/31/2013	15-Jul-2013	29-Aug-2013	13-Oct-2013	28-Oct-2013	7-Nov-2013	17-Nov-2013		NA		NA	NA		Perform March 2013 sampling event				
9	Gas Hill APP/HASP	Draft: email Final: HC+CD	1-May-2012	15-Jun-2012	30-Jul-2012	13-Sep-2012	28-Sep-2012	8-Oct-2012	18-Oct-2012	N/A	N/A	N/A	NA	N/A		Incorporate comments into Draft APP/HASP when received and submit Final	Request comments on Draft APP/HASP from Tim.	$ 54,311.00	$ 25,110.50	$ 29,200.50
10	Gas Hill UFP SAP	Draft: email Draft Rev 2: HC+CD Final: 4 HC+CDs	1-May-2012	15-Jun-2012	30-Jul-2012	13-Sep-2012	28-Sep-2012	8-Oct-2012	18-Oct-2012		N/A		NA	X		Incorporate comments into Draft UFP SAP when all received and submit Draft Rev 2	Provide comments on Draft UFP SAP. Request comments from Tim.			
11	Gas Hill Semi-Annual Groundwater Monitoring Report (September 2012)	Draft: email Final: 4 HC+CDs	30-Nov-2012	14-Jan-2013	28-Feb-2013	14-Apr-2013	29-Apr-2013	9-May-2013	19-May-2013		NA		NA	NA		Tabulate data and prepare report.				
12	Gas Hill Semi-Annual Groundwater Monitoring Report (March 2013)	Draft: email Final: 4 HC+CDs	31-May-2013	15-Jul-2013	29-Aug-2013	13-Oct-2013	28-Oct-2013	7-Nov-2013	17-Nov-2013		NA		NA	NA		Perform March 2013 sampling event				
13	PCA 25 UST Site 119 APP/HASP	Draft: email Final: HC+CD	16-May-2012	30-Jun-2012	14-Aug-2012	28-Sep-2012	13-Oct-2012	23-Oct-2012	2-Nov-2012	N/A	NA	NA	NA	NA		Incorporate comments into Draft APP/HASP when received and submit Final	Request comments on Draft APP/HASP from Tim.	$ 57,119.00	$ 15,578.50	$ 41,540.50
14	PCA 25 UST Site 119 UFP SAP	Draft: email Draft Rev 2: HC+CD Final: 4 HC+CDs	16-May-2012 9-Jul-2012 28-Sep-2012	30-Jun-2012	14-Aug-2012	28-Sep-2012	13-Oct-2012	23-Oct-2012	2-Nov-2012		NA	X	NA	X	X	Waiting for FDEP approval of Final				
15	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (August 2012)	Draft: email Final: 4 HC+CDs	31-Oct-2012	15-Dec-2012	29-Jan-2013	15-Mar-2013	30-Mar-2013	9-Apr-2013	19-Apr-2013		NA		NA	NA		Tabulate data and prepare report.				
16	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (November 2012)	Draft: email Final: 4 HC+CDs	31-Jan-2013	17-Mar-2013	1-May-2013	15-Jun-2013	30-Jun-2013	10-Jul-2013	20-Jul-2013		NA		NA	NA		Perform November 2012 sampling event				
17	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (February 2013)	Draft: email Final: 4 HC+CDs	30-Apr-2013	14-Jun-2013	29-Jul-2013	12-Sep-2013	27-Sep-2013	7-Oct-2013	17-Oct-2013		NA		NA	NA		Perform February 2013 sampling event				
18	PCA 25 UST Site 119 Annual Groundwater Monitoring Report (May 2013)	Draft: email Final: 4 HC+CDs	31-Jul-2013	14-Sep-2013	29-Oct-2013	13-Dec-2013	28-Dec-2013	7-Jan-2014	17-Jan-2014		NA		NA	NA		Perform May 2013 sampling event				
19	Hawkins Property APP/HASP	Draft: email Final: HC+CD	15-Jun-2012	30-Jul-2012	13-Sep-2012	28-Oct-2012	12-Nov-2012	22-Nov-2012	2-Dec-2012	NA	NA	NA	NA	NA		Incorporate comments into Draft APP/HASP when received and submit Final	Request comments on Draft APP/HASP from Tim.	$ 135,163.00	$ 8,498.50	$ 126,664.50
20	Hawkins Property UFP SAP	Draft: email Draft Rev 2: HC+CD Final: 4 HC+CDs									NA		NA			Prepare Draft UFP SAP (once scope is determined) and submit for review	Review recommendations from Solutions-IES. Decide if December 2012 sampling event is appropriate. Discuss with FDEP.			
21	OU-5 PSC 51, OU-1 PSCs 26&27, OU-3 Area A APP/HASP	Draft: email Final: HC+CD	14-Jun-2012	29-Jul-2012	12-Sep-2012	27-Oct-2012	11-Nov-2012	21-Nov-2012	1-Dec-2012	NA	NA	NA	NA	NA			Request comments on draft HASP from Tim and Navy H&S.	$ 45,318.00	$ 25,714.50	$ 19,603.50
22	OU-5 PSC 51, OU-1 PSCs 26&27, OU-3 Area A UFP SAP	Draft: email Draft Rev 2: HC+CD Final: 4 HC+CDs	13-Jul-2012 5-Oct-2012	27-Aug-2012	11-Oct-2012	25-Nov-2012	10-Dec-2012	20-Dec-2012	30-Dec-2012		NA	X	NA	X	X	Incorporate comments into Draft Final UFP SAP when received and submit Final	Request comments from FDEP.			
23	OU-5 PSC 51 Annual Groundwater Monitoring Report	Draft: email Final: 4 HC+CDs	2-Oct-2012	16-Nov-2012	31-Dec-2012	14-Feb-2013	1-Mar-2013	41344	41354		NA		NA	NA		Prepare Draft GW Monitoring Report				
24	OU-1 PSCs 26&27 Annual Groundwater Monitoring Report	Draft: email Final: 4 HC+CDs	31-Dec-2012	14-Feb-2013	31-Mar-2013	15-May-2013	30-May-2013	9-Jun-2013	19-Jun-2013		NA		NA	NA		Prepare Draft GW Monitoring Report				
25	OU-3 Area A Annual Groundwater Monitoring Report	Draft: email Final: 4 HC+CDs	31-Dec-2012	14-Feb-2013	31-Mar-2013	15-May-2013	30-May-2013	9-Jun-2013	19-Jun-2013		NA		NA	NA		Prepare Draft GW Monitoring Report				
26	Polishing Pond APP/HASP	Draft: email Final: HC+CD	30-Nov-2012	14-Jan-2013	28-Feb-2013	14-Apr-2013	29-Apr-2013	9-May-2013	19-May-2013	NA	NA	NA	NA	NA		Prepare Draft APP/HASP		$ 21,235.00	$ -	$ 21,235.00
27	Polishing Pond UFP SAP	Draft: email Draft Rev 2: HC+CD Final: 4 HC+CDs	30-Nov-2012	14-Jan-2013	28-Feb-2013	14-Apr-2013	29-Apr-2013	9-May-2013	19-May-2013		NA		NA			Prepare Draft UFP SAP				

X = Comments have been received from this reviewer
Blank = No comments have been received from this reviewer
Shaded - Documents to be submitted in the next 30 days.
NA = no review required by this reviewer.

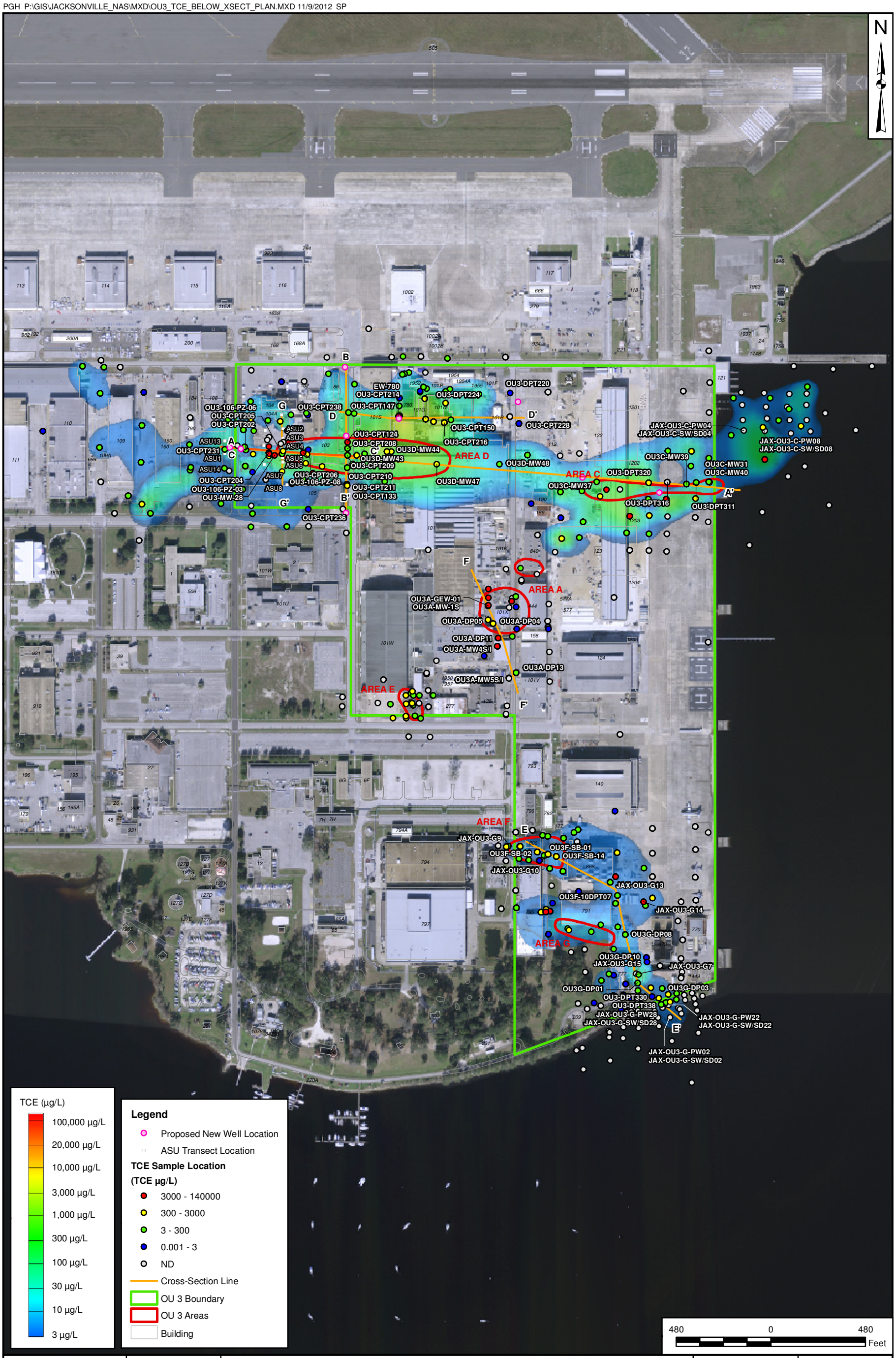
** The regulators will issue a letter approving the draft-final as final if no dispute resolution.

PGH P:\GIS\JACKSONVILLE_NAS\MXD\OU3_TCE_ABOVE_XSECT_PLAN.MXD 11/9/2012 SP



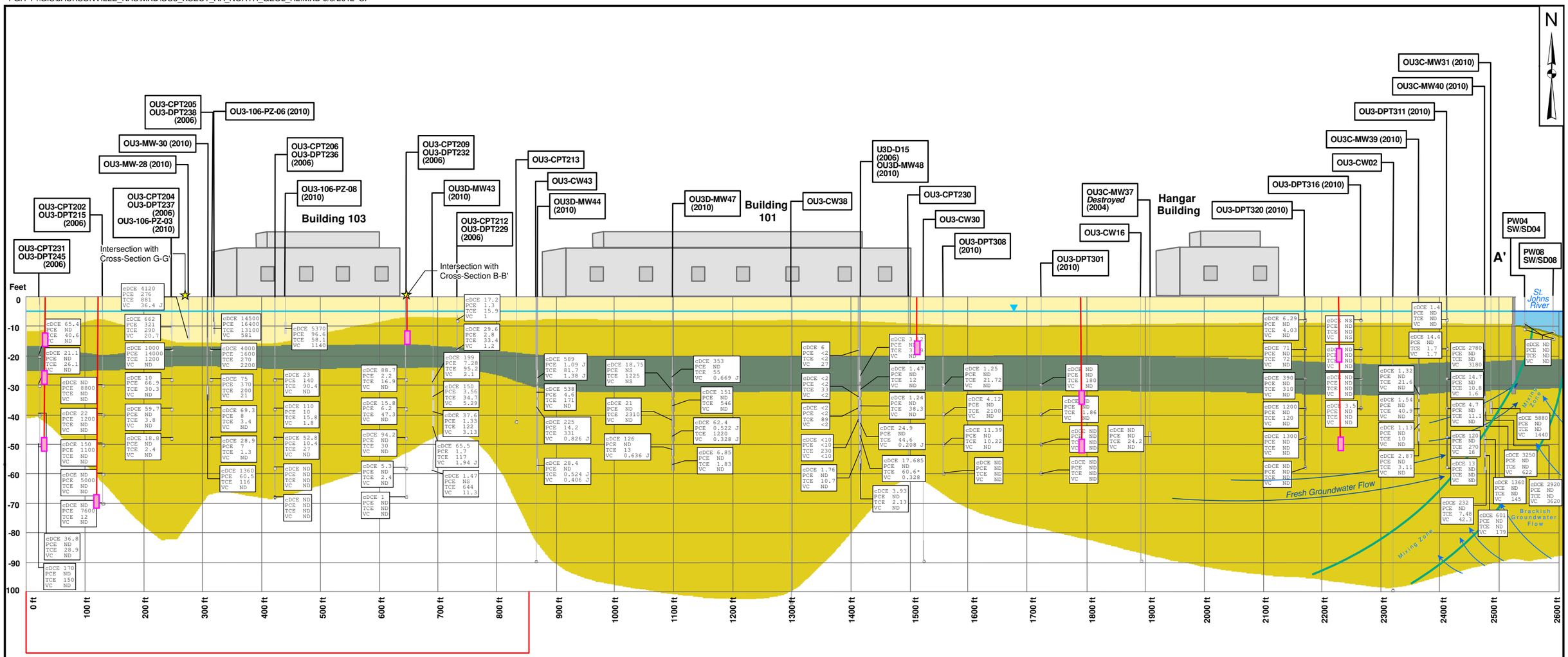
DRAWN BY S. PAXTON	DATE 09/26/11	TRICHLOROETHENE CROSS-SECTION PLAN MAP ABOVE CLAY LAYER OU 3 NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER 2160 / CTO NUMBER 0154
CHECKED BY M. MAUGHON	DATE 11/09/12		APPROVED BY ___ / DATE ___
REVISED BY S. PAXTON	DATE 11/09/12		APPROVED BY ___ / DATE ___
SCALE AS NOTED			FIGURE NO. 7 / REV 0

PGH P:\GIS\JACKSONVILLE_NAS\MXD\OU3_TCE_BELOW_XSECT_PLAN.MXD 11/9/2012 SP



DRAWN BY S. PAXTON	DATE 09/26/11	TRICHLOROETHENE CROSS-SECTION PLAN MAP BELOW CLAY LAYER OU 3 NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER 2160 / CTO NUMBER 0154
CHECKED BY D. HARDISON	DATE 11/09/12		APPROVED BY / DATE
REVISED BY S. PAXTON	DATE 11/09/12		APPROVED BY / DATE
SCALE AS NOTED			FIGURE NO. 7 / REV 0

PGH P:\GIS\JACKSONVILLE_NAS\MXD\OU3_XSECT_AA_NORTH_GEOL_R2.MXD 9/5/2012 SP



Legend

- Water Table
- Sand
- Sand With Interbedded Silts and Clays
- Clay

Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) NS indicates the parameter was not sampled.
5) J indicates the result is an estimated concentration.
6) Dates in parenthesis in the location tag indicate the year when the results were obtained.
7) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

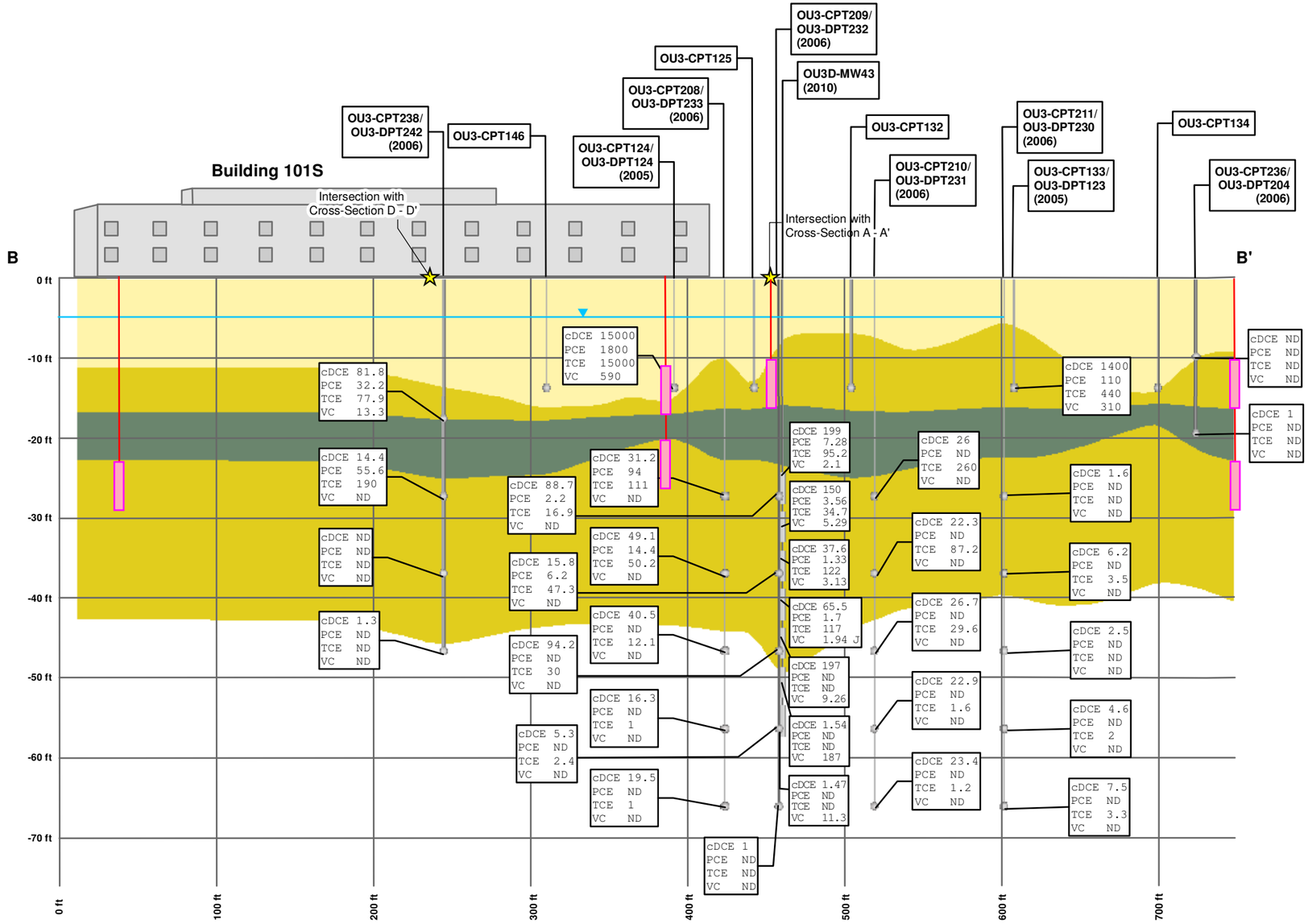
DRAWN BY S. PAXTON	DATE 05/14/12
CHECKED BY M. MAUGHON	DATE 09/05/12
REVISED BY S. PAXTON	DATE 09/05/12
SCALE AS NOTED	

NAVFAC

CROSS-SECTION A - A'
OU 3
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 1	REV 0

PGH P:\GIS\JACKSONVILLE_NAS\MXD\OU3_XSECT_BB_NORTH_GEOL_JUNE2012_R2.MXD 7/10/2012 SP



Legend

- Water Table
- Sand
- Sand With Interbedded Silts and Clays
- Clay

Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) J indicates the result is an estimated concentration.
5) Dates in parenthesis in the location tag indicate the year when the results were obtained.
6) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

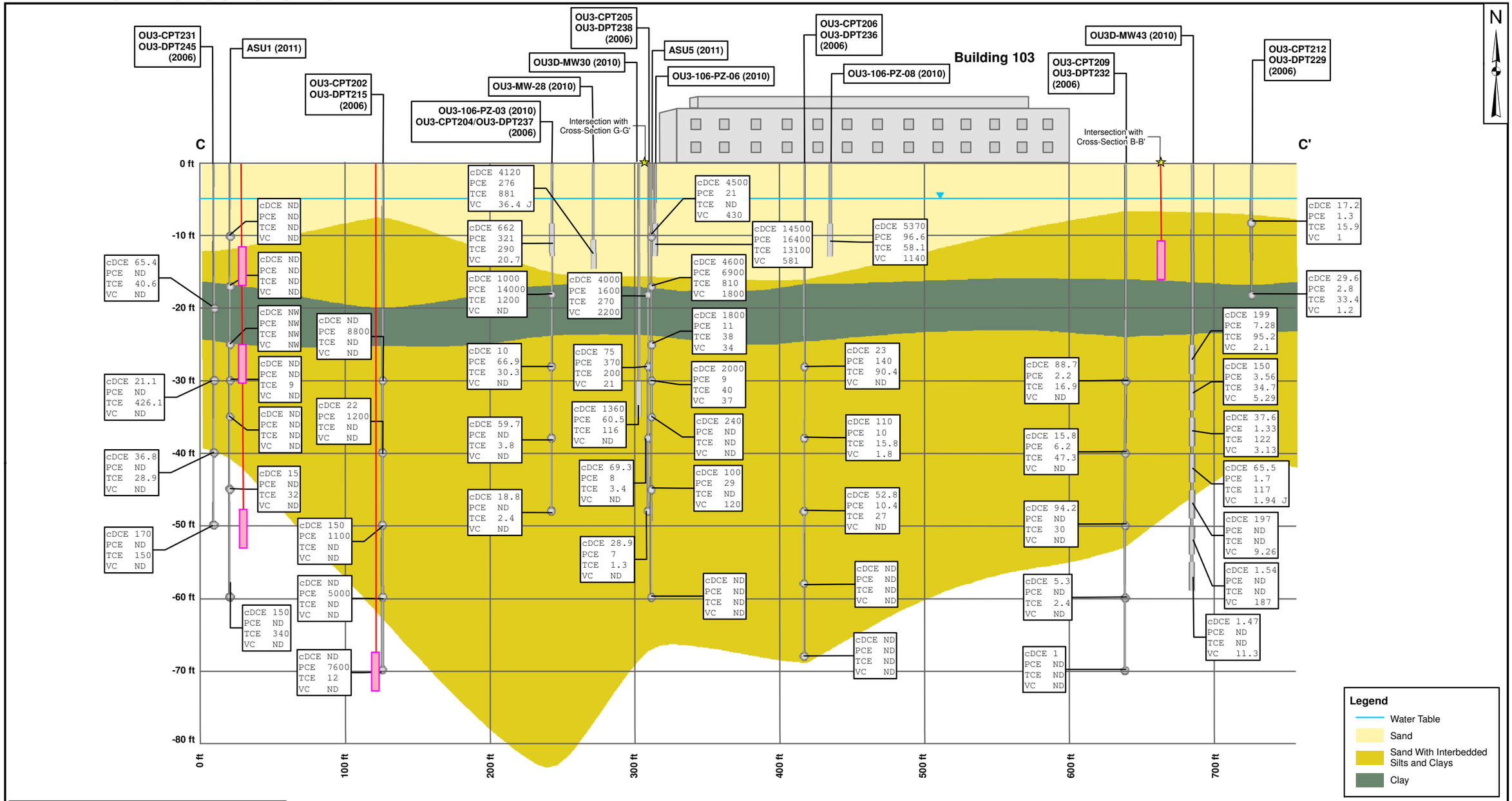
DRAWN BY	DATE
S. PAXTON	10/09/11
CHECKED BY	DATE
D. HARDISON	07/10/12
REVISED BY	DATE
S. PAXTON	07/10/12
SCALE	
AS NOTED	

NAVFAC

CROSS-SECTION B - B'
OU 3
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 2	REV 0

PGH P:\GIS\JACKSONVILLE_NAS\MXD\OU3_XSECT_CC_NORTH_GEOL_JUNE2012_R2.MXD 11/8/2012 SP



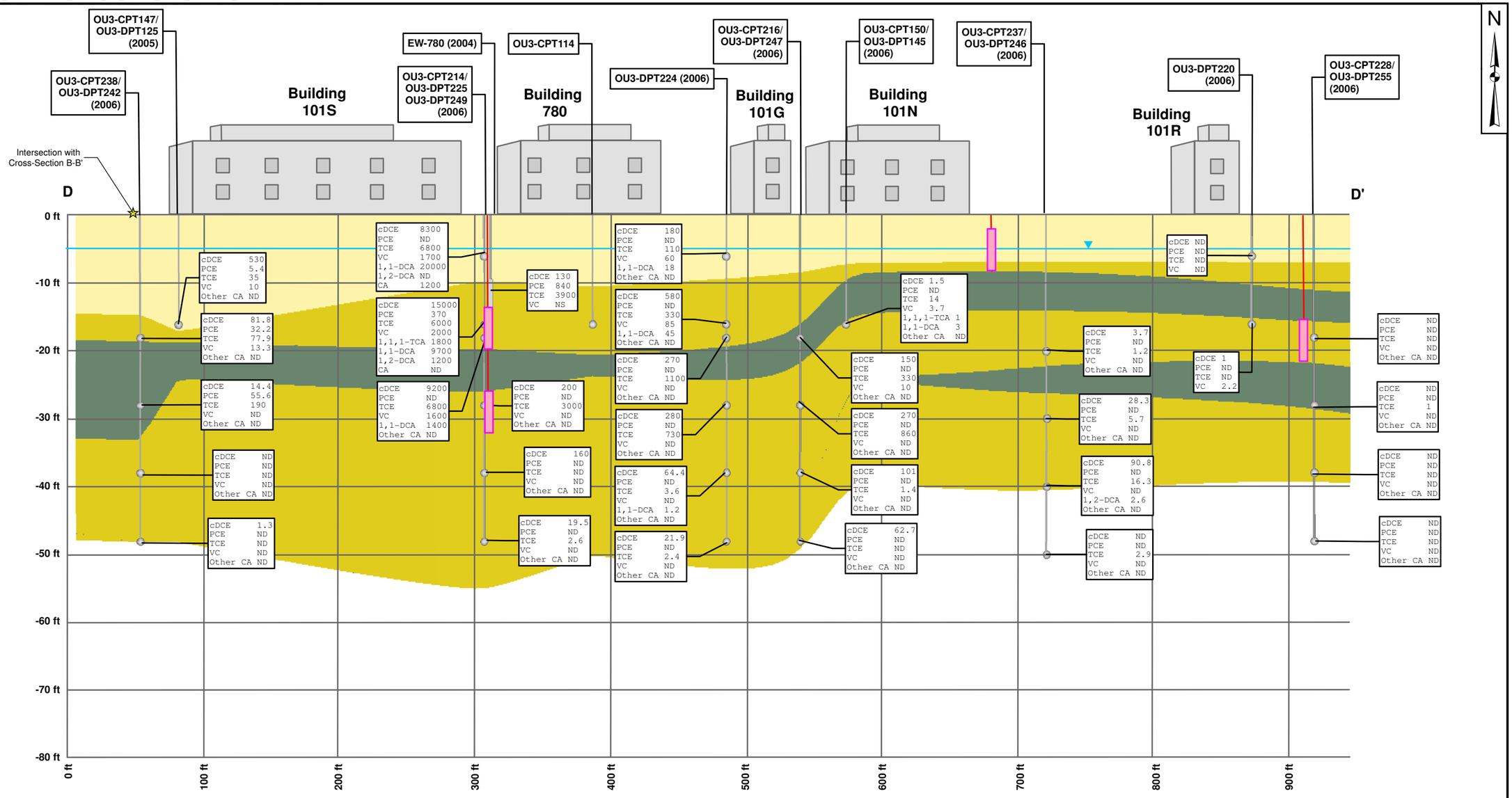
Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) NW indicates water was not available for analysis.
5) J indicates the result is an estimated concentration
6) Dates in parenthesis in the location tag indicate the year when the results were obtained.
7) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

DRAWN BY	DATE
S. PAXTON	05/14/12
CHECKED BY	DATE
M. MAUGHON	11/08/12
REVISED BY	DATE
S. PAXTON	11/08/12
SCALE	
AS NOTED	

NAVFAC

CROSS-SECTION C - C'
OU 3
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 3	REV 0



Legend

- Water Table
- Sand
- Sand With Interbedded Silts and Clays
- Clay

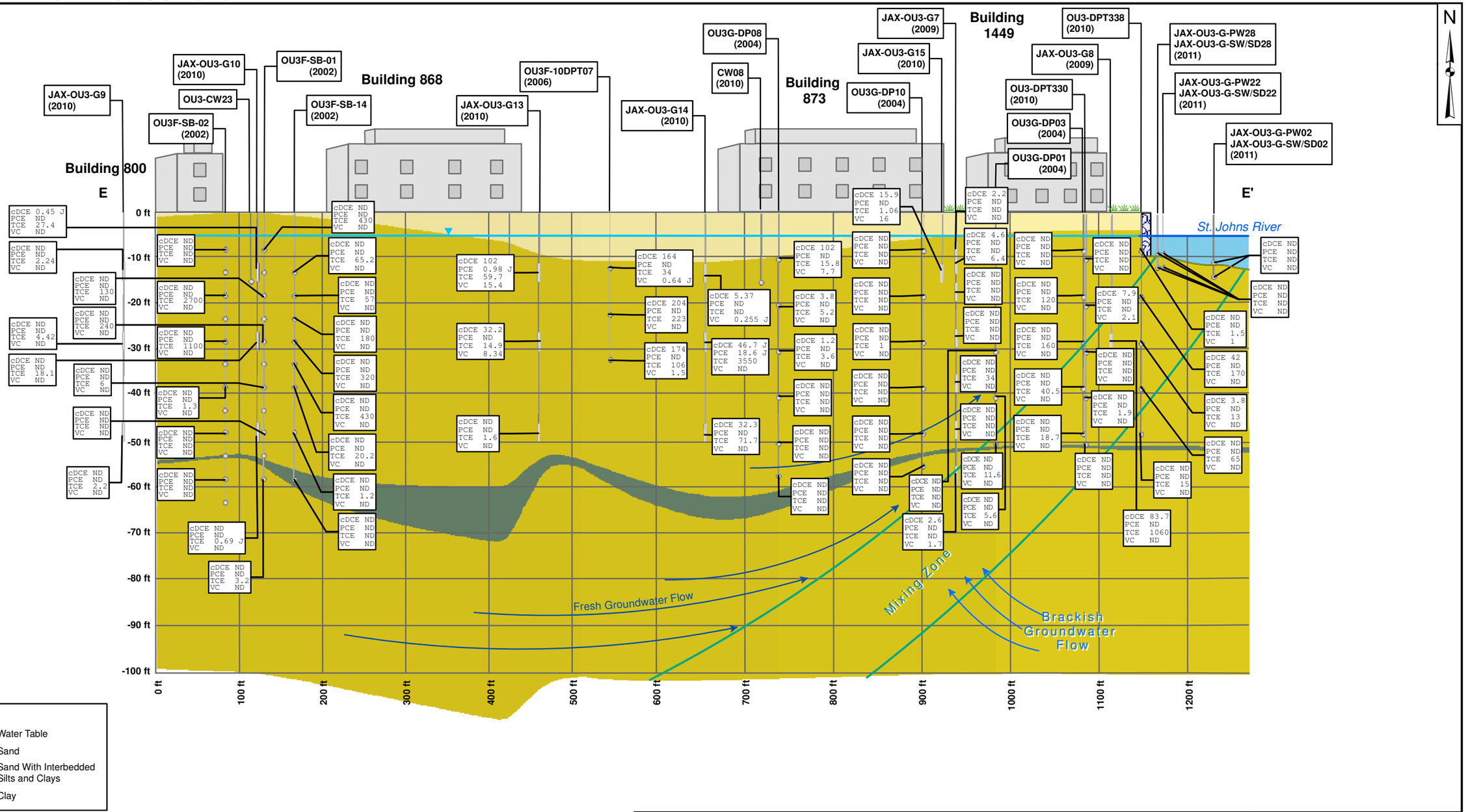
Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) NS indicates the parameter was not sampled.
5) Dates in parenthesis in the location tag inidcate the year when the results were obtained.
6) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

DRAWN BY	DATE
S. PAXTON	05/14/12
CHECKED BY	DATE
M. MAUGHON	09/26/12
REVISED BY	DATE
S. PAXTON	09/26/12
SCALE	
AS NOTED	

NAVFAC

CROSS-SECTION D - D'
OU 3
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 4	REV 0



Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) J indicates the result is an estimated concentration.
5) Dates in parenthesis in the location tag indicate the year when the results were obtained.
6) Buildings are offset from cross-section. Sample locations area not contained within the buildings.

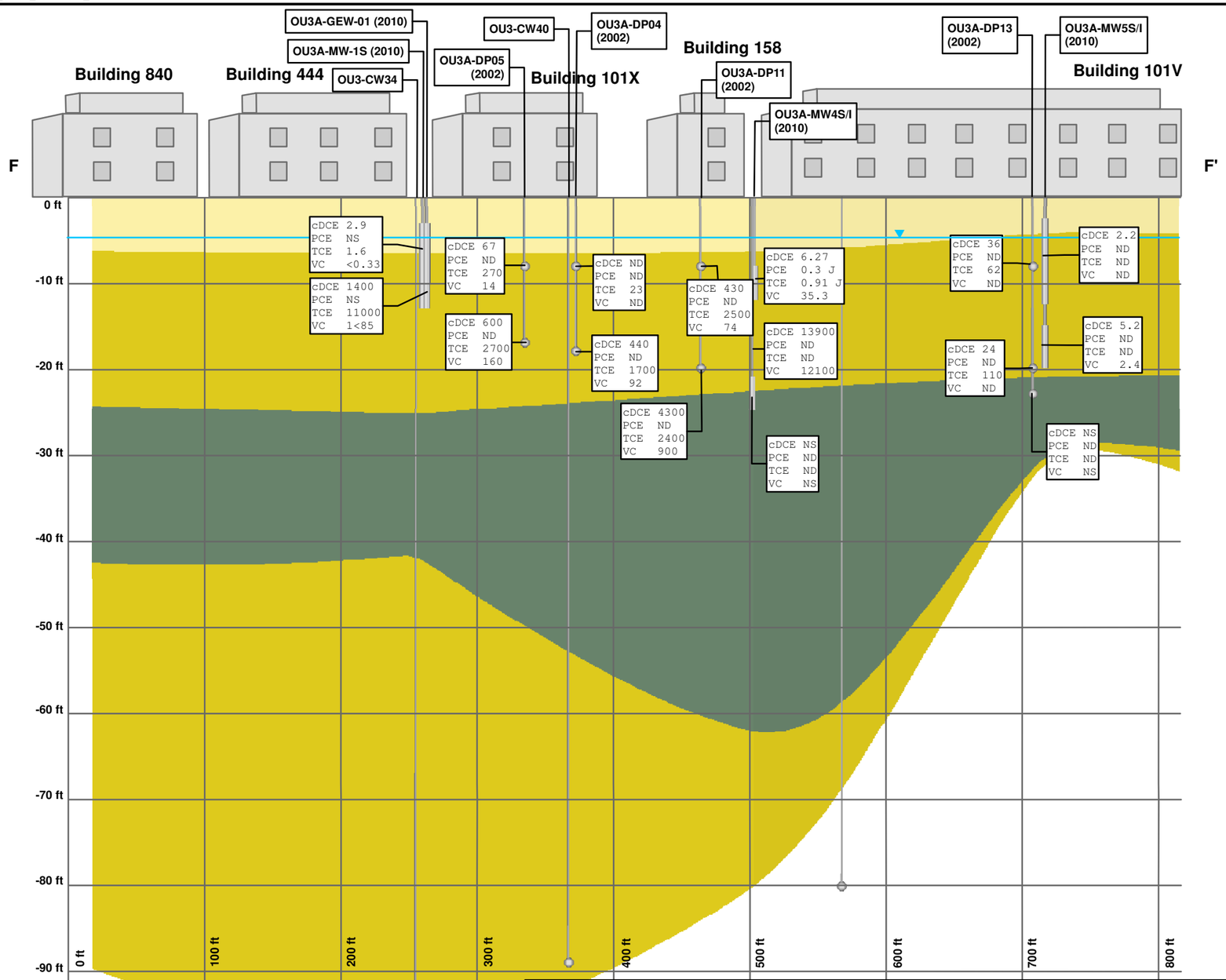
DRAWN BY S. PAXTON	DATE 05/14/12
CHECKED BY M. MAUGHON	DATE 11/09/12
REVISED BY S. PAXTON	DATE 11/09/12
SCALE AS NOTED	

NAVFAC

CROSS-SECTION E - E'
OU 3
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 5	REV 0

PGH P:\GIS\JACKSONVILLE_NAS\MXD\OU3_XSECT_FF_NORTH_GEOL_JUNE2012_R3.MXD 9/21/2012 SP



Legend

- Water Table
- Sand
- Sand With Interbedded Silts and Clays
- Clay

Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) Dates in parenthesis in the location tag indicate the year when the results were obtained.
5) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

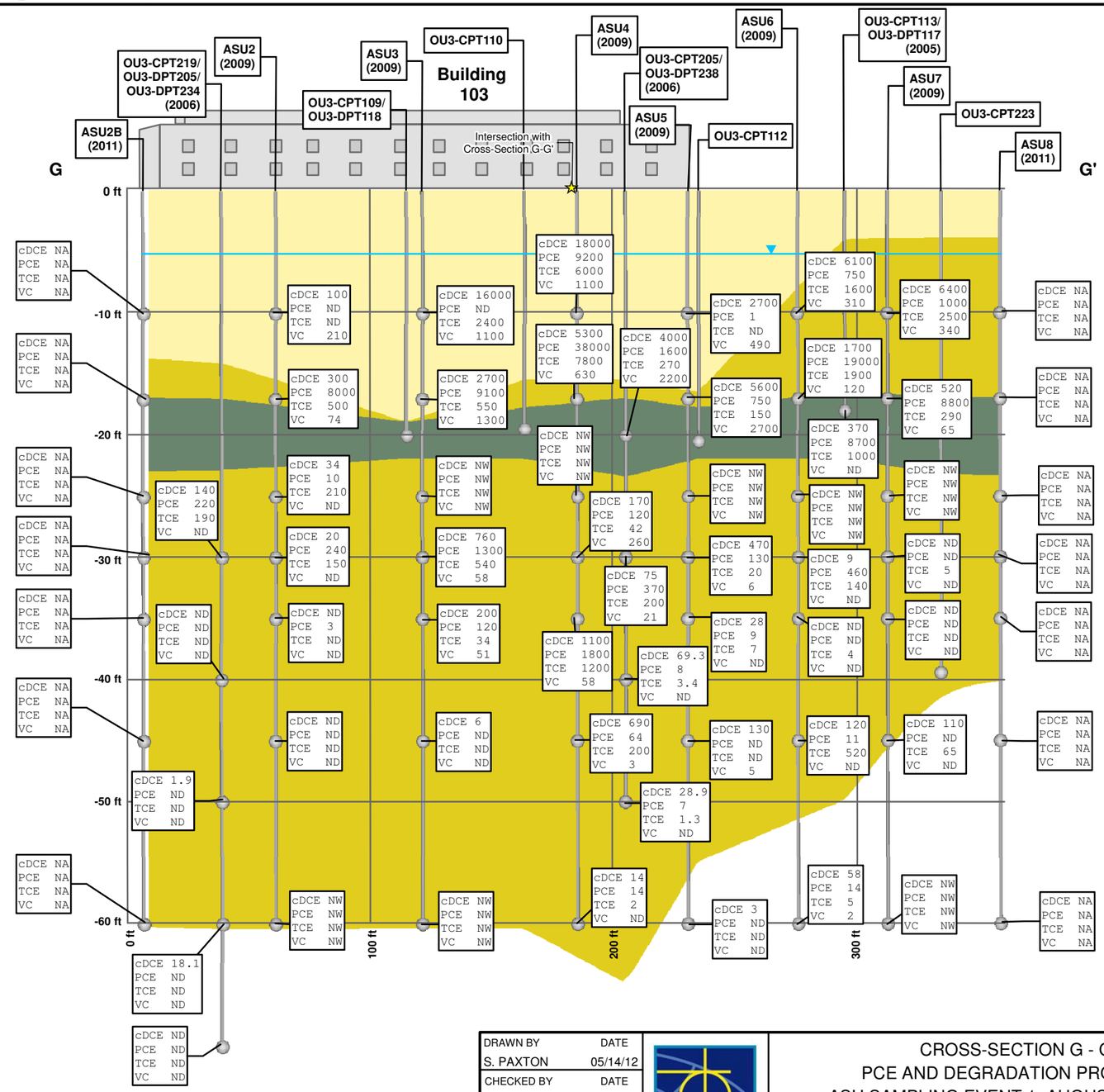
DRAWN BY S. PAXTON	DATE 05/14/12
CHECKED BY M. MAUGHON	DATE 09/21/12
REVISED BY S. PAXTON	DATE 09/21/12
SCALE AS NOTED	

NAVFAC

CROSS-SECTION F - F'
OU 3
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 6	REV 0

PGH P:\GIS\JACKSONVILLE_NAS\MXD\OU3_XSECT_GG_NORTH_GEOL_JUNE2012_EVENT1.MXD 9/26/2012 SP



Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) NW indicates water was not available for analysis.
5) NA indicates the well was not installed during this sampling event.
6) J indicates the result is an estimated concentration
7) Dates in parenthesis in the location tag indicate the year when the results were obtained.
8) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

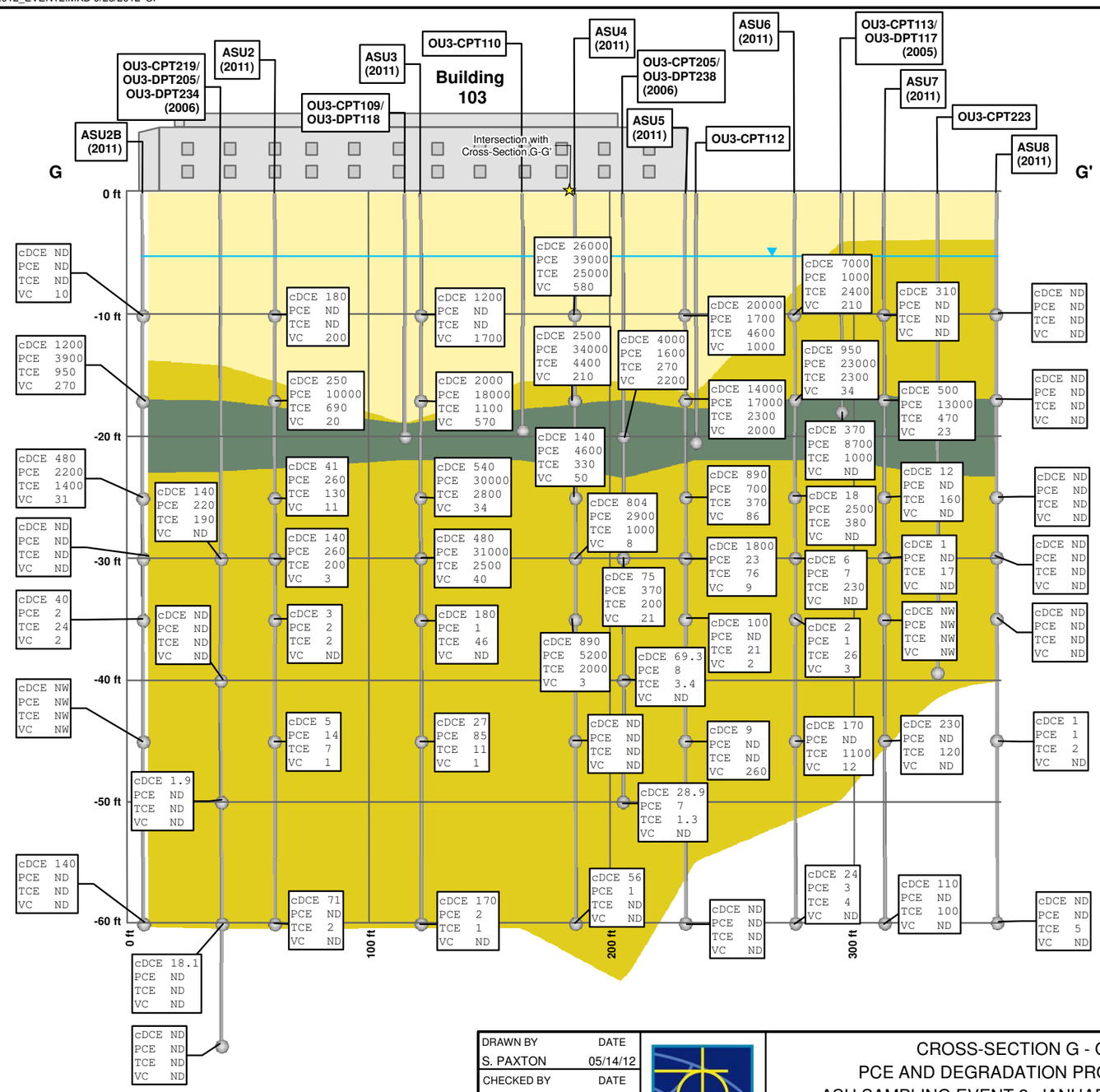
DRAWN BY S. PAXTON	DATE 05/14/12	
CHECKED BY M. MAUGHON	DATE 09/24/12	
REVISED BY S. PAXTON	DATE 09/24/12	
SCALE AS NOTED		

NAVFAC

CROSS-SECTION G - G'
PCE AND DEGRADATION PRODUCTS
ASU SAMPLING EVENT 1, AUGUST 6-15, 2009
OU 3
NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	CTO NUMBER
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. 7	REV 0

PGH P:\GIS\JACKSONVILLE_NAS\MXD\OU3_XSECT_GG_NORTH_GEOL_JUNE2012_EVENT2.MXD 9/26/2012 SP



Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) NW indicates water was not available for analysis.
5) J indicates the result is an estimated concentration
6) Dates in parenthesis in the location tag indicate the year when the results were obtained.
7) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

DRAWN BY S. PAXTON	DATE 05/14/12	CROSS-SECTION G - G'	CONTRACT NUMBER ___
CHECKED BY M. MAUGHON	DATE 09/24/12	PCE AND DEGRADATION PRODUCTS	CTO NUMBER ___
REVISED BY S. PAXTON	DATE 09/24/12	ASU SAMPLING EVENT 2, JANUARY 9-22, 2011	APPROVED BY ___ DATE ___
SCALE AS NOTED	NAVFAC	OU 3	APPROVED BY ___ DATE ___
		NAS JACKSONVILLE	FIGURE NO. 7
		JACKSONVILLE, FLORIDA	REV 0

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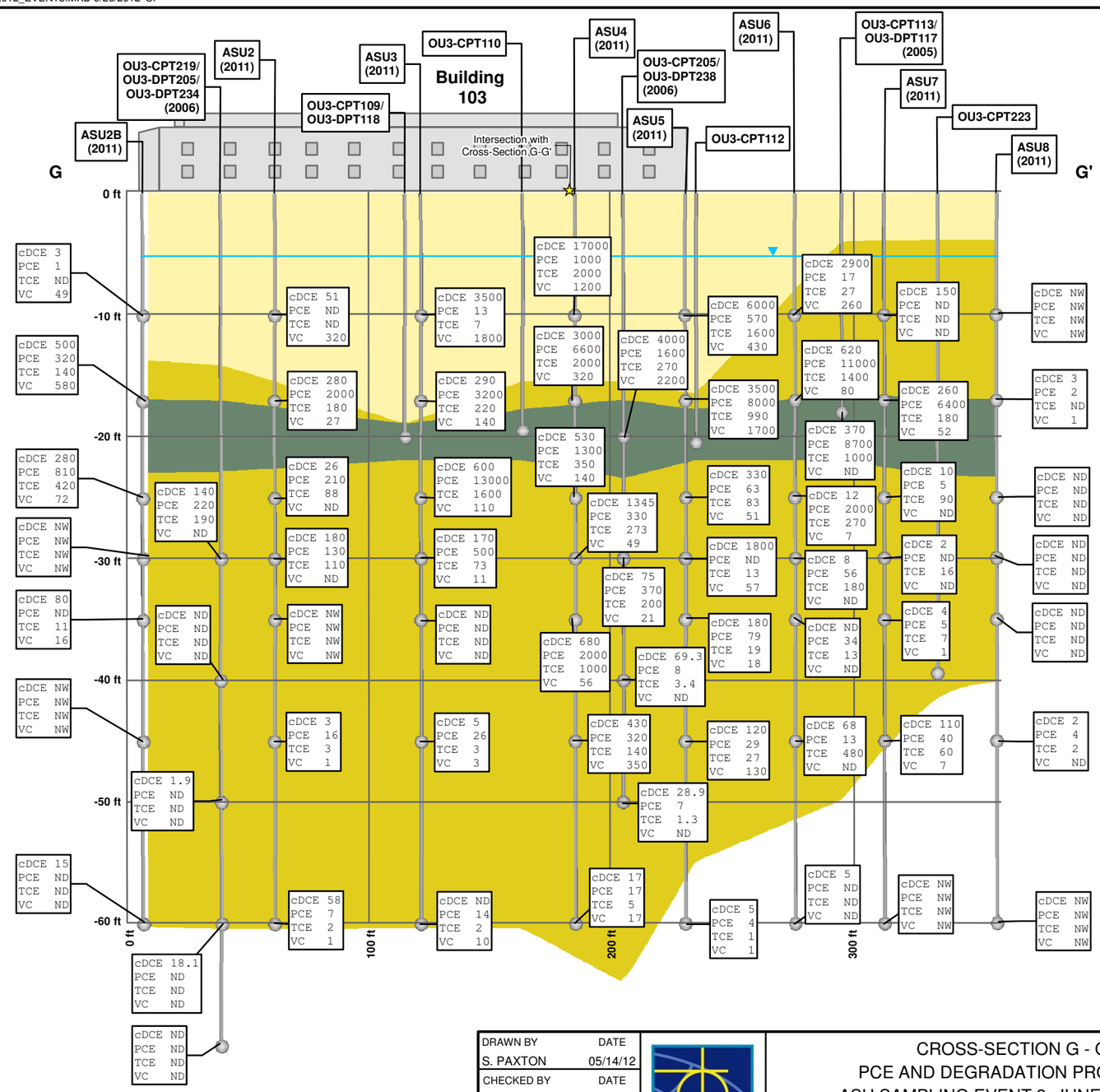

Notes:
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7) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

DRAWN BY S. PAXTON	DATE 05/14/12	CROSS-SECTION G - G'	CONTRACT NUMBER ___
CHECKED BY M. MAUGHON	DATE 09/24/12	PCE AND DEGRADATION PRODUCTS	CTO NUMBER ___
REVISED BY S. PAXTON	DATE 09/24/12	ASU SAMPLING EVENT 3, JUNE 4-13, 2011	APPROVED BY ___ DATE ___
SCALE AS NOTED	NAVFAC	OU 3	APPROVED BY ___ DATE ___
		NAS JACKSONVILLE	FIGURE NO. 7
		JACKSONVILLE, FLORIDA	REV 0

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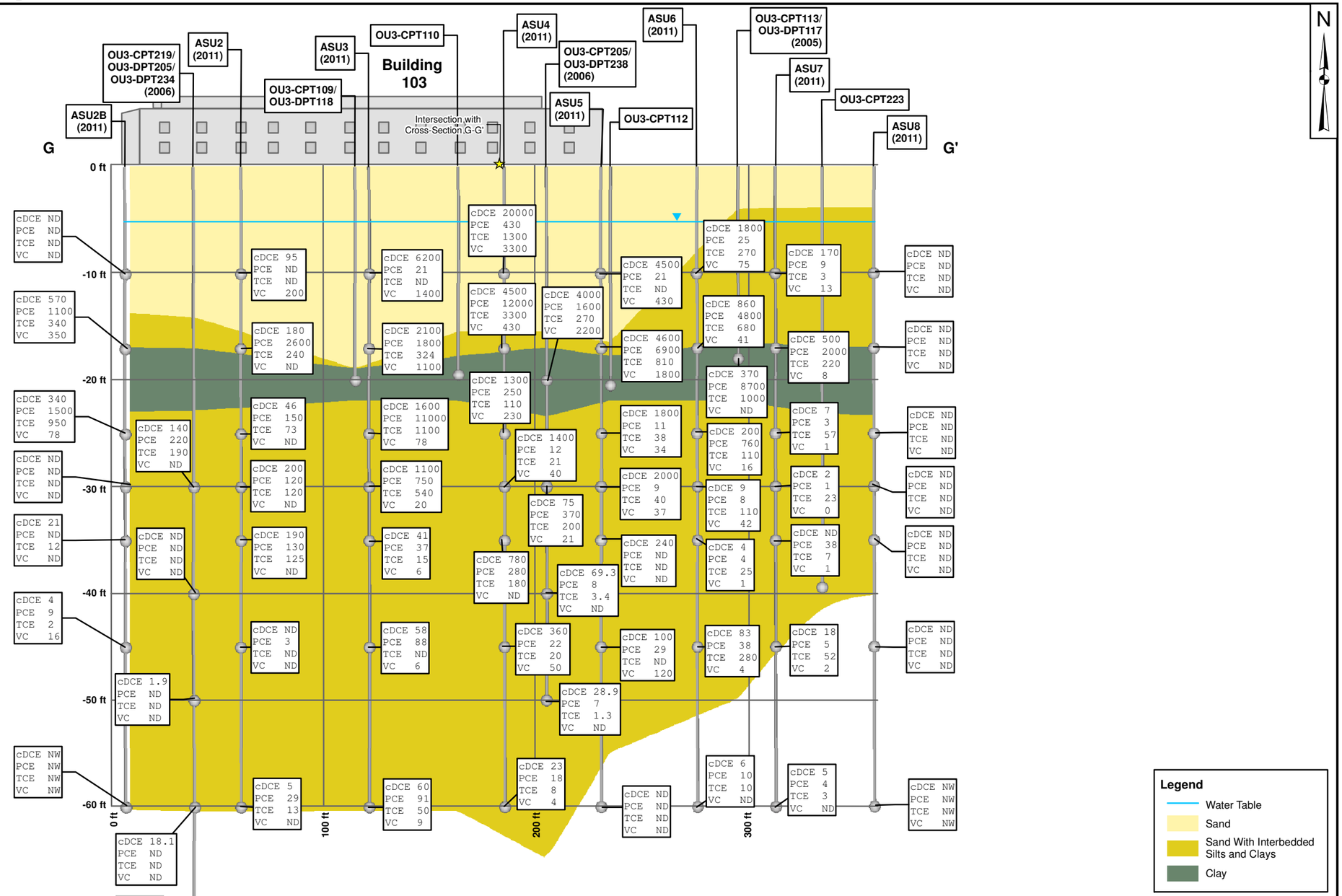

Notes:
1) Elevations posted are depth below land surface.
2) All concentrations are listed in micrograms per liter (ug/L)
3) ND indicates the result is a non-detect.
4) NW indicates water was not available for analysis.
5) J indicates the result is an estimated concentration
6) Dates in parenthesis in the location tag indicate the year when the results were obtained.
7) Buildings are offset from cross-section. Sample locations are not contained within the buildings.

DRAWN BY S. PAXTON	DATE 05/14/12	CROSS-SECTION G - G' PCE AND DEGRADATION PRODUCTS ASU SAMPLING EVENT 4, SEPTEMBER 20-30, 2011 OU 3 NAS JACKSONVILLE JACKSONVILLE, FLORIDA	CONTRACT NUMBER ___ / CTO NUMBER ___
CHECKED BY M. MAUGHON	DATE 09/24/12		APPROVED BY ___ / DATE ___
REVISED BY S. PAXTON	DATE 09/24/12		APPROVED BY ___ / DATE ___
SCALE AS NOTED			FIGURE NO. 7 / REV 0

Site Investigation Scoping NAS Jacksonville PSC 57: S-3 High Power Turn Up Pad

N62470-10-R-3013, CTO JM19

November 2012

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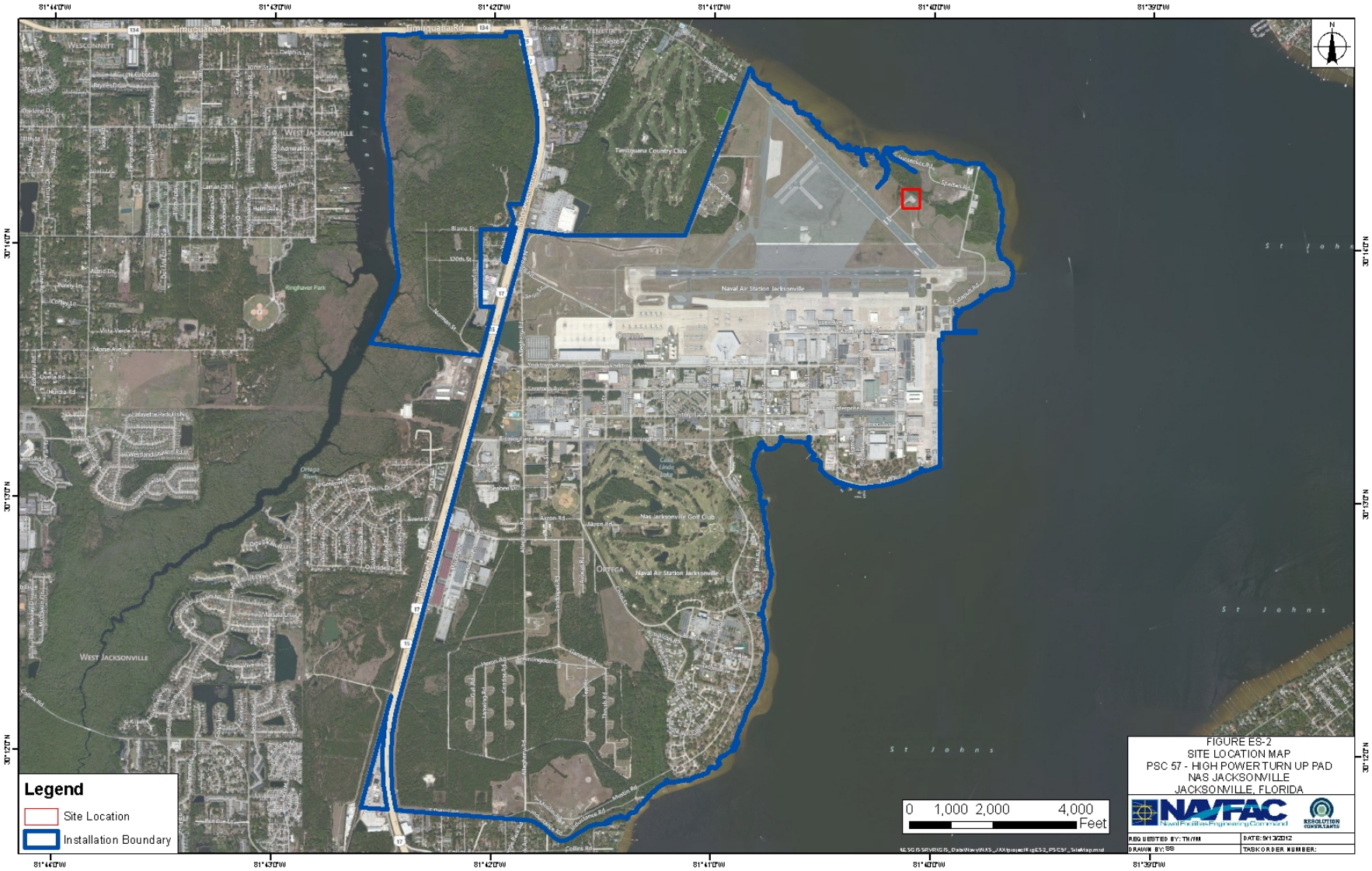

RESOLUTION CONSULTANTS

Background

- Originally the location of the A7 High Power Turn Up Pad (HPTP)
- Old A7 HPTP demolished in June 1997
- Petroleum impacts were discovered during demolition
- A soil removal action was completed
- S-3 HPTP constructed in August 1997 at the same location

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Old A7 High Power Turn Up Pad
Prior to Demolition in 1997

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S-3 High Power Turn Up Pad
Circa 2002

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2001-02 Site Assessment

- Site was identified as PCA 17 and a Site Assessment performed in 2001 in accordance with Chapter 62-770, F.A.C.
- Site Assessment activities included:
  - Soil vapor assessment
  - DPT soil sampling (mobile and fixed base lab analyses)
  - DPT groundwater sampling (mobile lab analyses)
  - Monitoring well installation and sampling (fixed base lab analyses)

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Soil Assessment

- Eight of 15 soil borings locations had organic vapor readings >50 ppm
- 16 soil samples were analyzed by the mobile lab for BTEX, MTBE, naphthalene, 1-methylnaphathalene, and 2-methylnaphathalene. No constituents were detected by the mobile lab
- Three soil samples were sent to fixed base lab and analyzed for BTEX, MTBE, PAHs, and TRPH

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TABLE 4
FIXED-BASED LABORATORY SOIL ANALYTICAL RESULTS

PCA 17 - HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Compound	FDEP SCTL[1]		PCA 17		
	Direct Exposure Residential	Leachability Based on Groundwater	JAX-HPTP-SB05-S03	JAX-HPTP-SB10-S03	JAX-HPTP-SB11-S03
			9/30/2001	9/30/2001	9/30/2001
Sample Interval			3 ft bls	3 ft bls	3 ft bls
PAHs (USEPA Method 8310) (µg/kg)					
Benzo(A)Pyrene	100	8000	46.6J	<74	<76
FL-PRO (mg/kg)					
TRPH	340	340	44.9	9.48	<9.4

Notes:
J = Estimated value less than practical quantitation level
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
[1]FDEP SCTL = Florida Department of Environmental Protection Soil Clean Target Level Chapter 62-770, FAC (April 30, 1999)

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Groundwater Assessment

- 15 locations were sampled using DPT. Samples were analyzed by the mobile lab for BTEX, MTBE, naphthalene, 1-methylnaphathalene, and 2-methylnaphathalene
- Five permanent wells were subsequently installed in two subsequent phases of work
- Samples were analyzed for VOHs, PAHs, TRPH, and lead

RESOLUTION CONSULTANTS

TABLE 5
MOBILE LABORATORY GROUNDWATER RESULTS

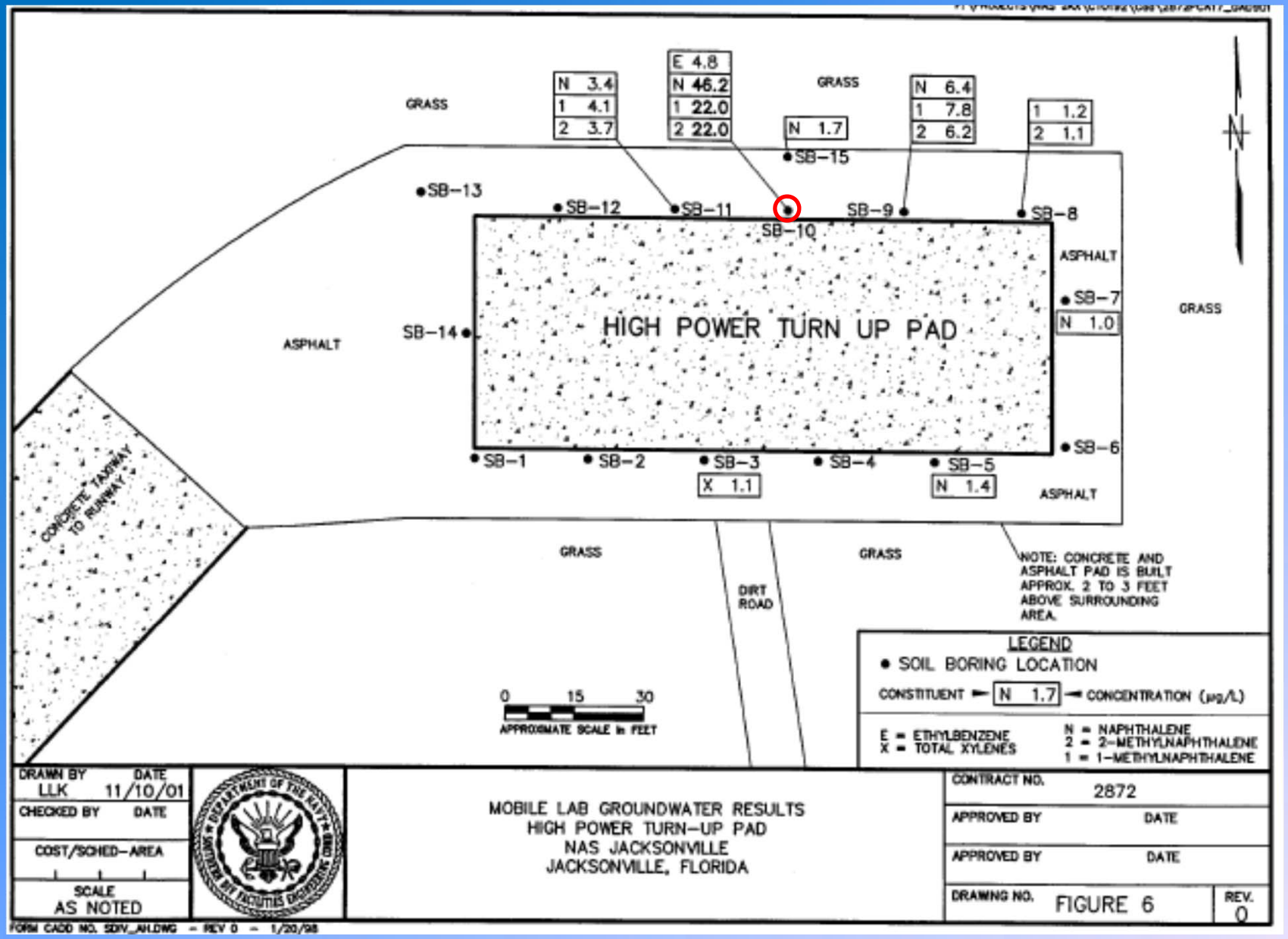
PCA 17- HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Sample ID	GCTLs (µg/L)[1]	SB 1 (4'-8')	SB 2 (6'-10')	SB 3 (6'-10')	SB 4 (6'-10')	SB 5 (6'-10')	SB 6 (6'-10')	SB 7 (6'-10')	SB 8 (6'-10')
Location		JAX-HPTP-SB-1	JAX-HPTP-SB-2	JAX-HPTP-SB-3	JAX-HPTP-SB-4	JAX-HPTP-SB-5	JAX-HPTP-SB-6	JAX-HPTP-SB-7	JAX-HPTP-SB-8
Date of Analysis		9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001
MTBE	50	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	40	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	30	<1	<1	<1	<1	<1	<1	<1	<1
m&p-xylene	20	<1	<1	1.1	<1	<1	<1	<1	<1
Naphthalene	20	<1	<1	<1	<1	1.4	<1	1.0	<1
1-Methylnaphthalene	20	<1	<1	<1	<1	<1	<1	<1	1.2
2-Methylnaphthalene	20	<1	<1	<1	<1	<1	<1	<1	1.1

Sample ID	GCTLs (µg/L)	SB 9 (6'-10')	SB 10 (6'-10')	SB 10 (20'-24')	SB 11 (6'-10')	SB 12 (6'-10')	SB 13 (6'-10')	SB 14 (6'-10')	SB 15 (6'-10')
Location		JAX-HPTP-SB-9	JAX-HPTP-SB-10	JAX-HPTP-SB-10	JAX-HPTP-SB-11	JAX-HPTP-SB-12	JAX-HPTP-SB-13	JAX-HPTP-SB-14	JAX-HPTP-SB-15
Date of Analysis		9/29/2001	9/29/2001	9/30/2001	9/29/2001	9/29/2001	9/29/2001	9/29/2001	9/30/2001
MTBE	50	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	40	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	30	<1	4.8	<1	<1	<1	<1	<1	<1
m&p-xylene	20	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	20	6.4	**46.2**	<1	3.4	<1	<1	<1	1.7
1-Methylnaphthalene	20	7.8	**22.0**	<1	4.1	<1	<1	<1	<1
2-Methylnaphthalene	20	6.2	**22.0**	<1	3.7	<1	<1	<1	<1

Notes:
[1]Chapter 62-770, FAC (April 30, 1999)
Bold indicates exceedance of Groundwater Cleanup Target Levels (GCTLs).
µg/L = micrograms per liter

RESOLUTION CONSULTANTS



RESOLUTION CONSULTANTS

TABLE 6
FIXED BASED LABORATORY GROUNDWATER ANALYTICAL RESULTS

PCA 17 - HIGH POWER TURN-UP PAD
NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Compound	FDEP Target Level[1]	JAX-17-MW1-01	JAX-17-MW2-01	JAX-17-MW3-01	JAX-17-MW4-01	JAX-17-MW5-01
		10/24/2001	10/24/2001	10/24/2001	1/3/2002	1/3/2002
VOCs (USEPA Method 8021B) (µg/L)						
cis 1,2 Dichloroethene	70	1U	→ 0.82J	→ 6.2	→ 24.4	→ 2.8
trans 1,2 Dichloroethene	100	1U	1U	1U	→ 0.5J	1U
Trichloroethene	3	1U	1U	→ 0.62J	→ 0.81J	→ 0.49J
Vinyl Chloride	1	1U	1U	**2.3**	**6.7**	→ 0.84J
FL-PRO (USEPA Method 8270) (mg/L)						
TRPH	5	0.25U	→ 0.27	→ 0.726	0.25U	0.25U

Notes:
[1]Chapter 62-770, FAC (August, 1999)
U = below method detection limit
J = estimated values less than practical quantitaion leve
Bold indicates exceedance of target level.
mg/L = milligrams per liter
µg/L = micrograms per liter

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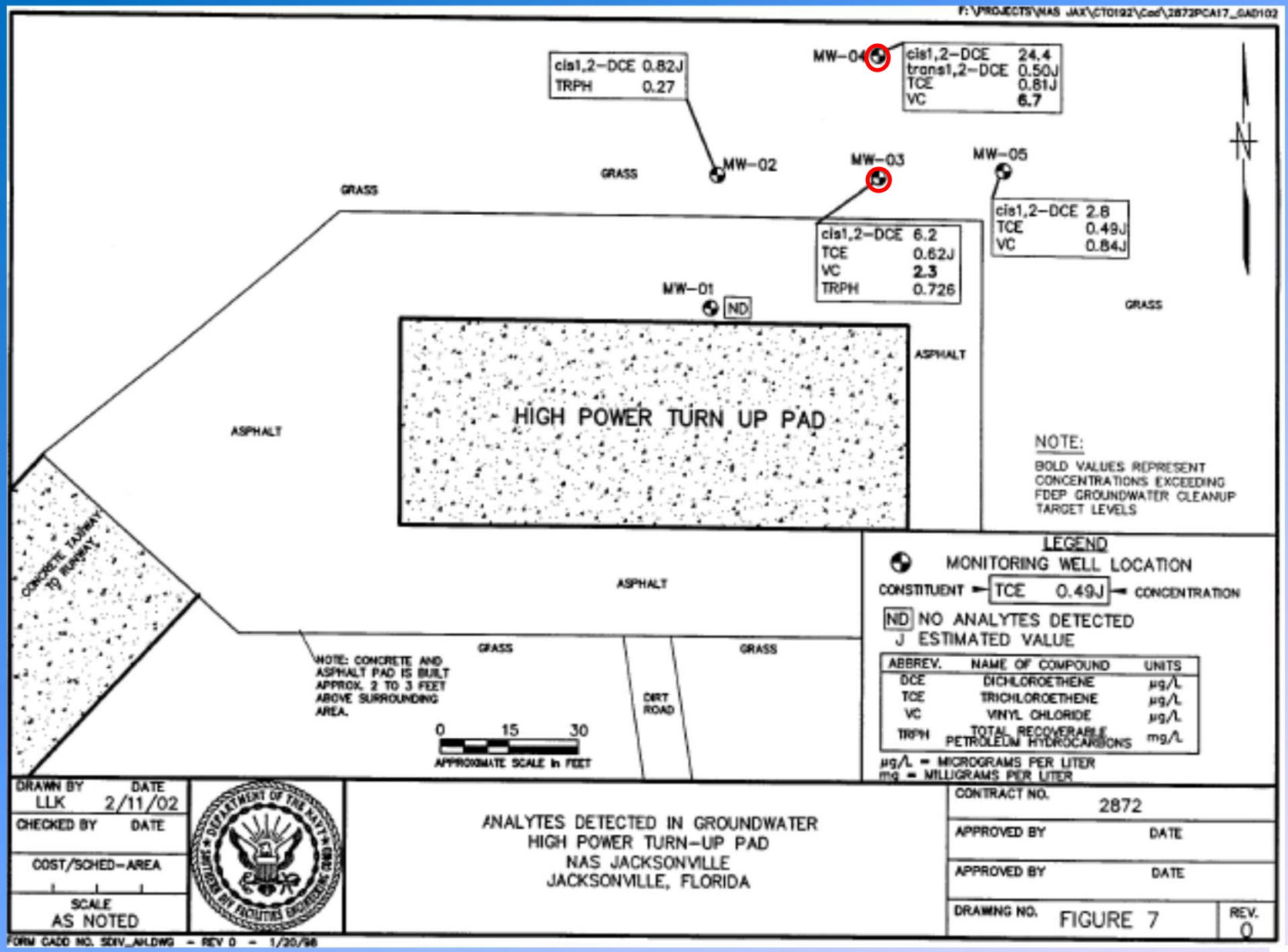
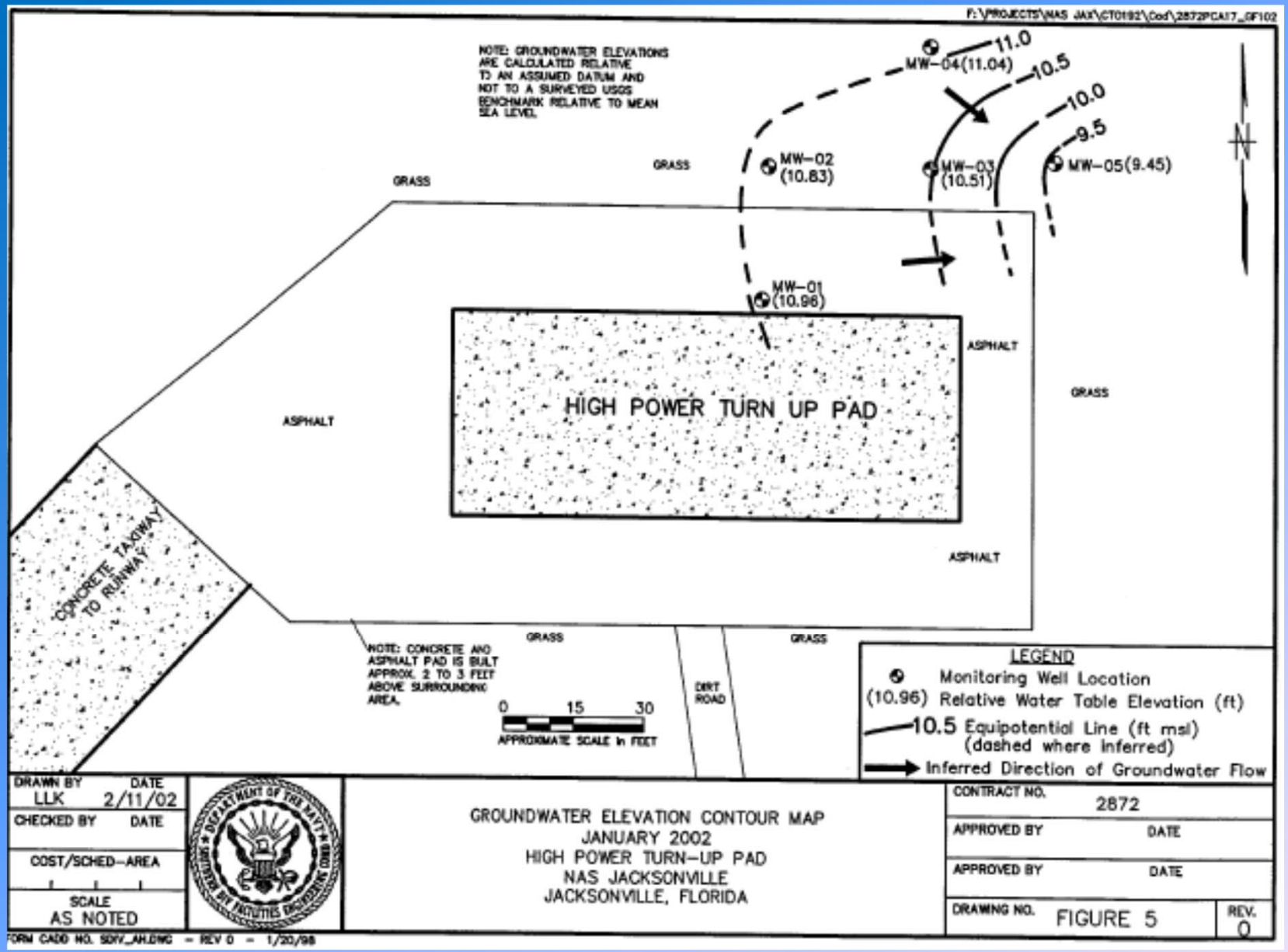


RESOLUTION CONSULTANTS



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Current Site Conditions

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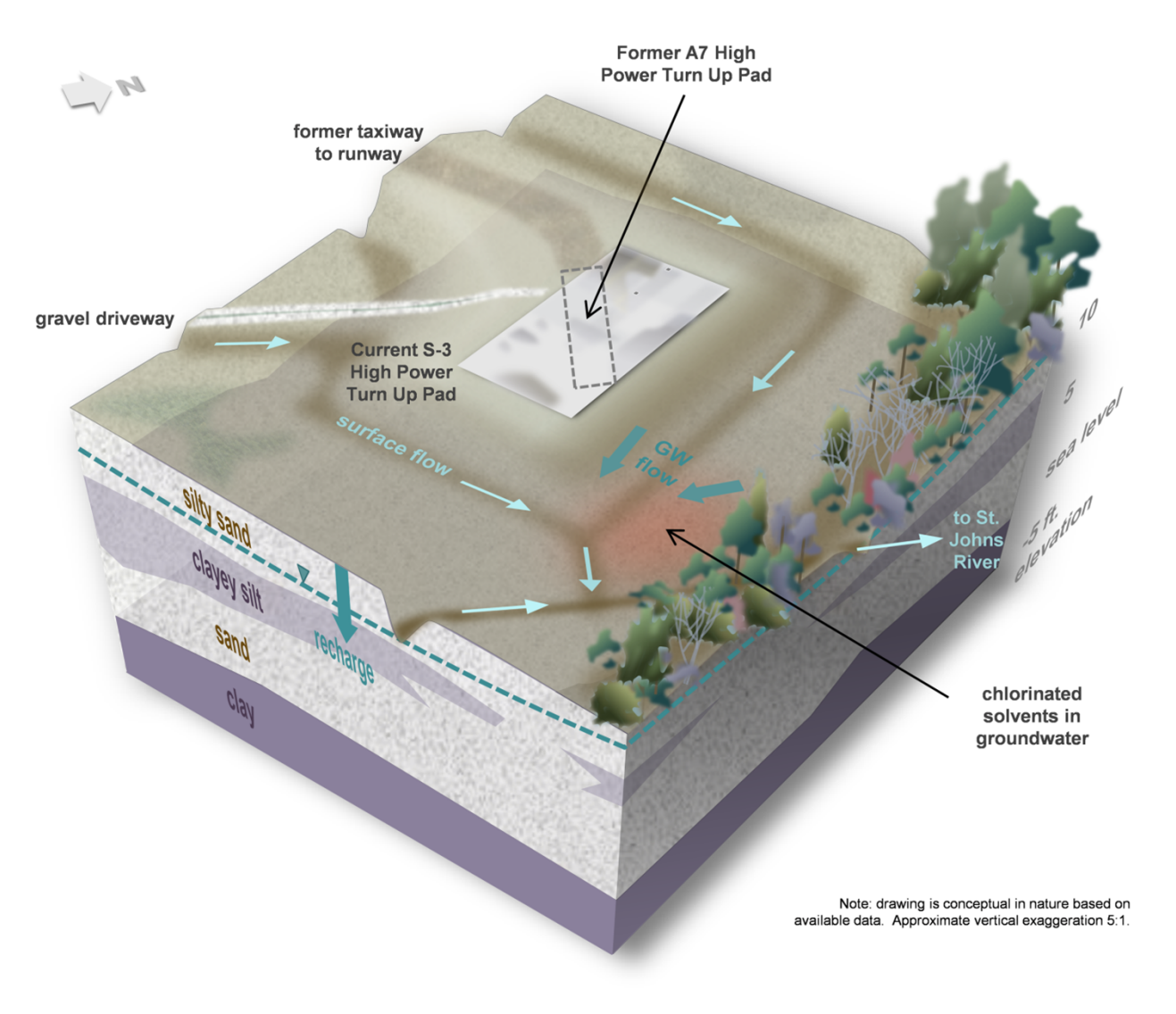
Conceptual Site Model



RESOLUTION CONSULTANTS

Project Quality Objectives/Systemic Planning Process Statements

Problem Statement

Results generated during previous investigations, indicate that soil and groundwater have been impacted by historical operations; however, the current dataset is inadequate to support a decision concerning what additional action, if any, is required.

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Existing Data Limitations

- The data is ≈12 years old so we don't know whether soil and groundwater chemical concentrations have attenuated, remained the same, or increased in the areas previously sampled.
- Soil samples were not analyzed for chlorinated hydrocarbons

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Project Quality Objectives/Systemic Planning Process Statements

Study Goal

Determine whether constituents previously detected are still present and assess potential threats to human health and the environment at the Site through a screening level evaluation of the data.

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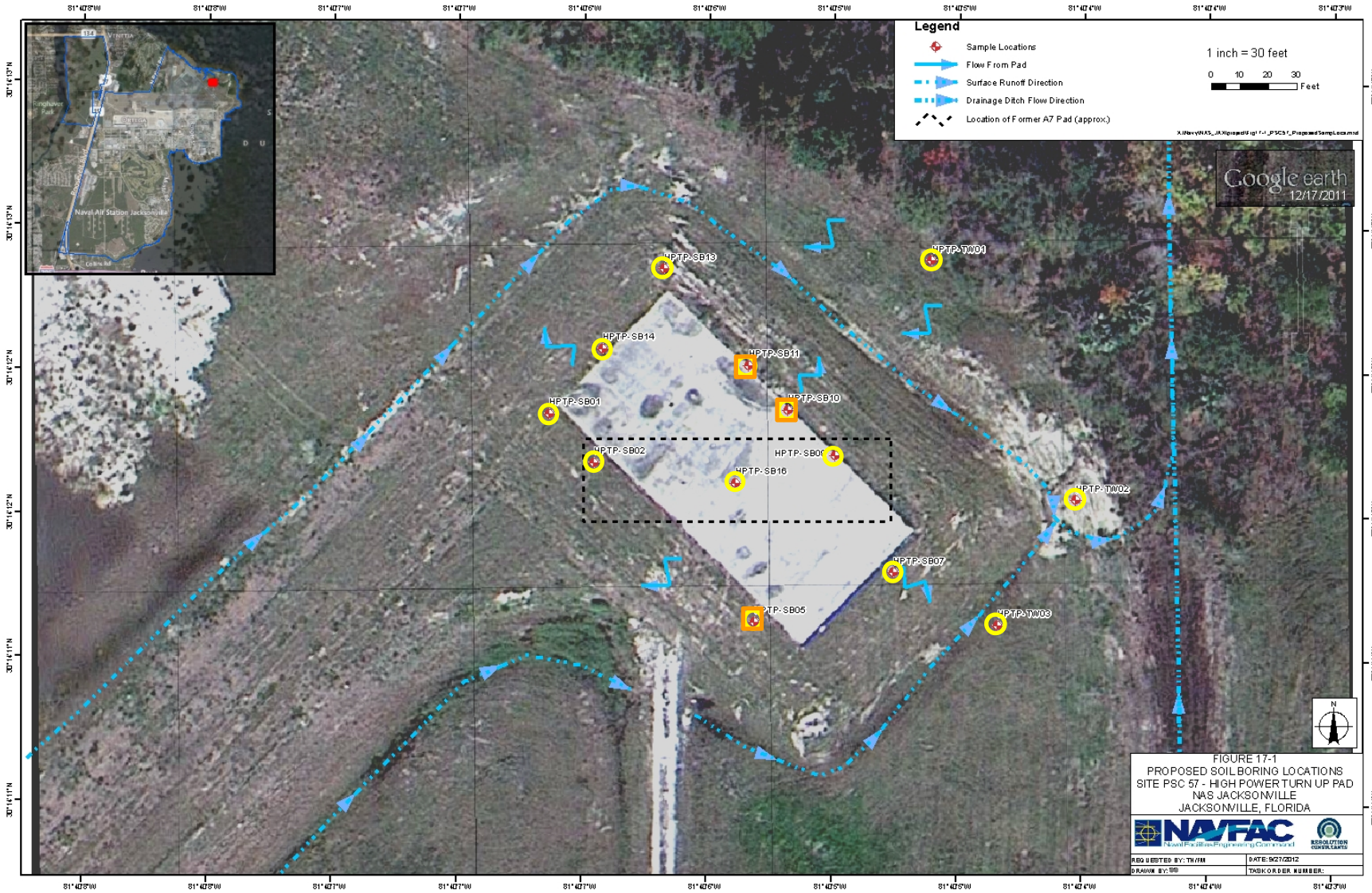
Proposed Soil Sampling Effort

- Collect soil samples from up to 13 boring locations
- Samples will be collected for analysis from 0-0.5 ft, 0.5-2 ft, and 2-4 ft depth intervals (depth to groundwater permitting)
- Samples will be submitted to a fixed based lab and analyzed for the following parameters:
  - VOCs by Method 8260B
  - PAHs by Method 8270C

RESOLUTION CONSULTANTS

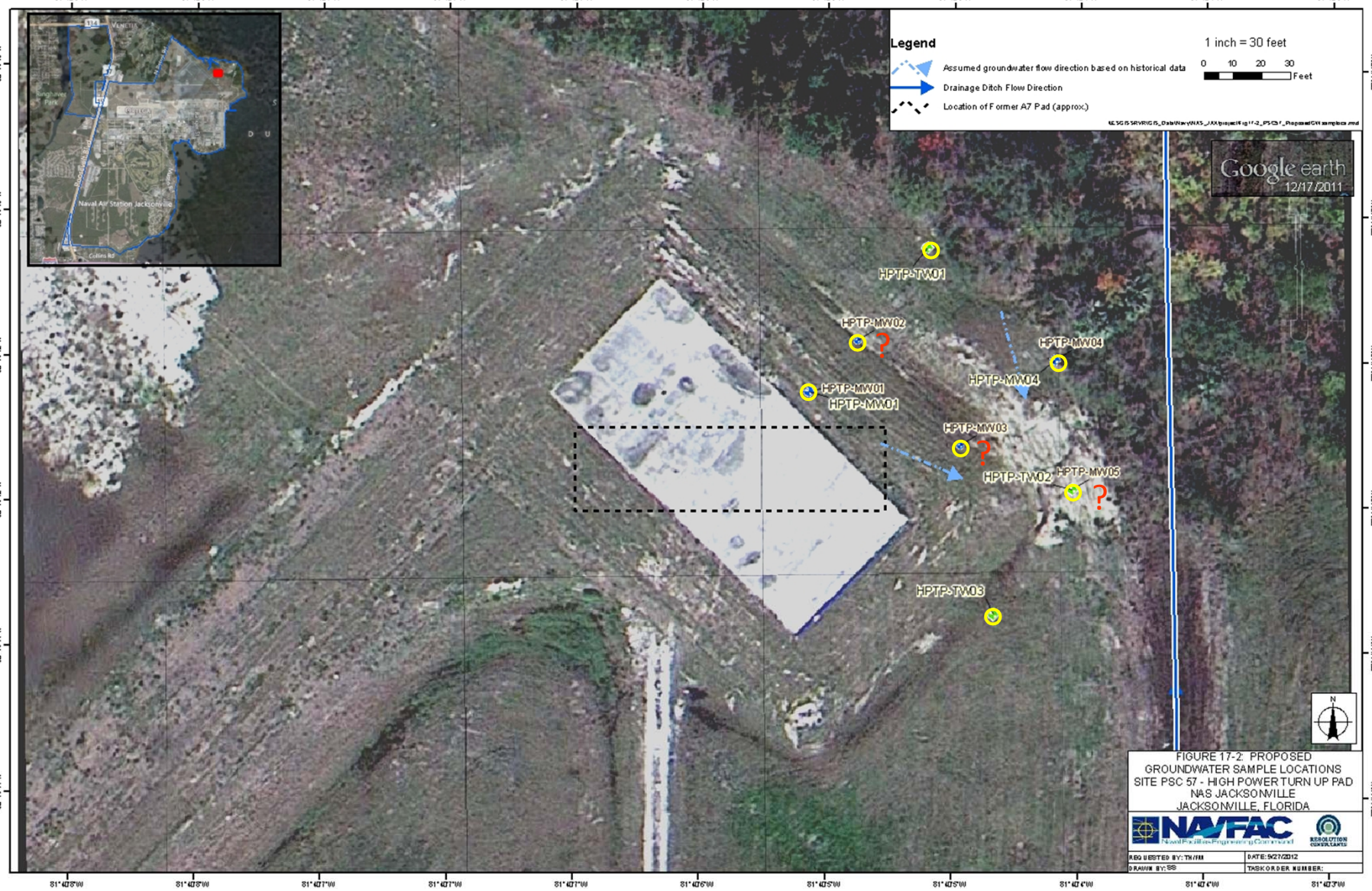


RESOLUTION CONSULTANTS

Proposed Groundwater Sampling Effort

- Resample the five existing permanent wells if they can be located. Only MW01 and MW04 were located during a recent site visit
- If necessary, install and sample up to three temporary wells to replace any permanent wells that can't be located
- Submit samples to a fixed based lab for the following analytical parameters:
  - VOCs by Method 8260B
  - PAHs by Method 8270C

RESOLUTION CONSULTANTS



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Additional Discussion/Questions

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