

N60200.AR.001853  
NAS CECIL FIELD, FL  
5090.3a

SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF CONTAMINATION  
C FLIGHT LINE AND PARKING LOT BACKGROUND POLYCYCLIC AROMATIC  
HYDROCARBON EVALUATION NAS CECIL FIELD FL  
4/27/1999  
TETRA TECH NUS INC

**Sampling and Analysis Work Plan  
Flightline and Parking Lot Background PAH Evaluation (PSC C)  
Naval Air Station Cecil Field  
Jacksonville, Florida**

**April 27, 1999**

Sampling and analysis of surface soils is proposed to establish background levels of PAHs at areas of runoff from runways and parking areas at NAS Cecil Field. Due to generally high concentrations of PAHs across the base, background levels will be established as a baseline for remediation goals.

As shown in Figure A, surface soil samples (0-1 feet) (CEF-FBG-SS-001-01 through CEF-FBG-SS-024-01) will be collected to determine background levels of PAHs resulting from activities on the flightline (runway and taxiway) areas. Samples will be collected in the preferential flow path and low-lying areas.

As shown in Figure B, surface soil samples (0-1 feet) (CEF-PBG-SS-001-01 through CEF-PBG-SS-018-01) will be collected to determine background levels of PAHs resulting from surface water runoff from paved parking areas. Figures C through F provide aerial photographs with the proposed sample locations shown. Samples will be collected in the preferential flow path and low-lying areas. Prior to collection of samples, field crew will visually evaluate each location to verify likelihood that run-off from the parking lot will pass over the proposed sample location.

The sample locations will be marked in the field with wooden stakes labeled with the sample ID. The locations will be recorded by a registered land surveyor.

The sample handling, bottleware, preservation, and holding time requirements are summarized in the following table:

<b>Analysis</b>	<b>Analytical Method</b>	<b>Bottleware</b>	<b>Preservation</b>	<b>Holding Time<sup>(1)</sup></b>
PAHs	SW-846 8310	8-oz. glass jar	Cool to 4°C	14 days to extraction; 40 days to analysis

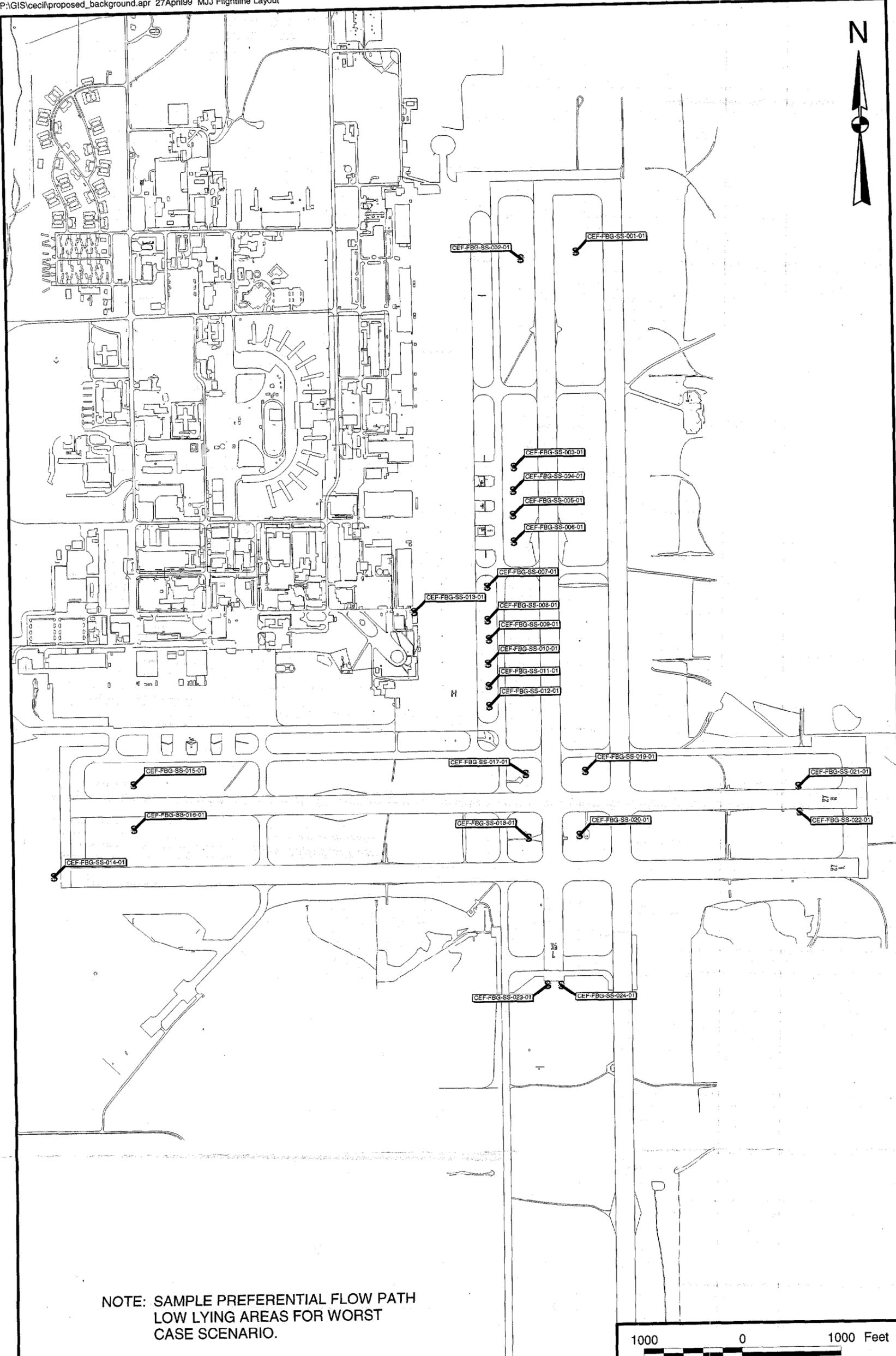
<sup>1</sup> Holding times are measured from the date/time of sample collection.

The frequency and type of Quality Assurance/Quality Control (QA/QC) samples are summarized in the following table:

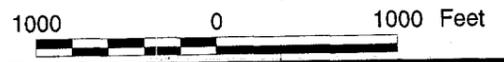
<b>Type of Samples</b>	<b>Frequency</b>	<b>Samples to be Collected</b>
Field Duplicate	1/10 sample/matrix	4
Lab MS/MSD	1/20 samples	2 <sup>(1)</sup>

<sup>1</sup> MS/MSD is a Laboratory QA/QC requirement, separate sample not required, only additional volume

As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, the analytical data packages generated by the analytical laboratory will be reviewed by Tetra Tech NUS personnel to eliminate false positive and false negative results.



NOTE: SAMPLE PREFERENTIAL FLOW PATH  
LOW LYING AREAS FOR WORST  
CASE SCENARIO.



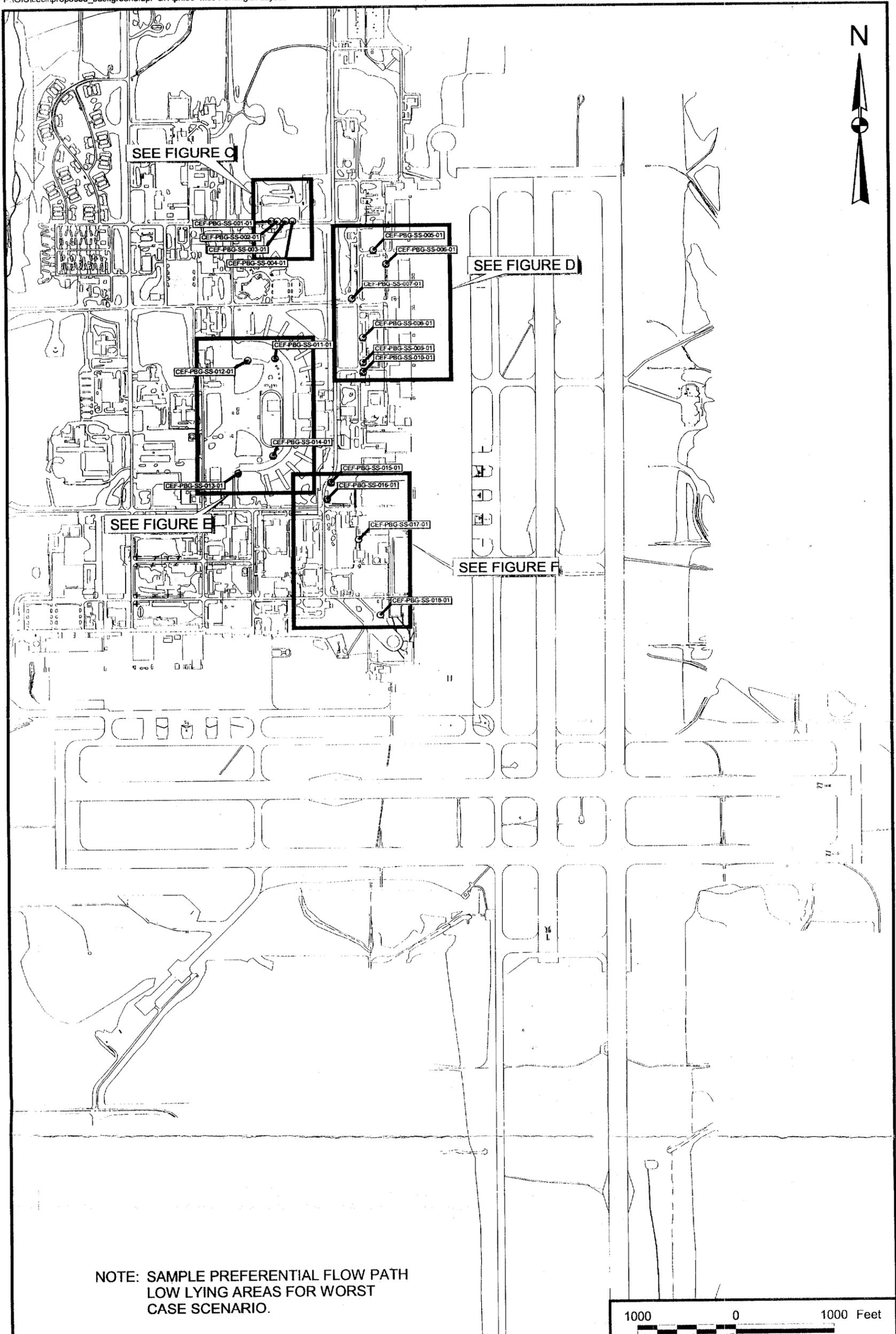
DRAWN BY	DATE
MJJ	26April99
CHECKED BY	DATE
COST/SCHEDULE/AREA	
SCALE AS NOTED	



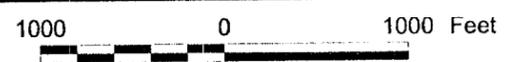
PROPOSED BACKGROUND SAMPLE LOCATIONS FOR FLIGHTLINE AREA  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE A	REV 0

UNKNOWN FB12



NOTE: SAMPLE PREFERENTIAL FLOW PATH  
LOW LYING AREAS FOR WORST  
CASE SCENARIO.

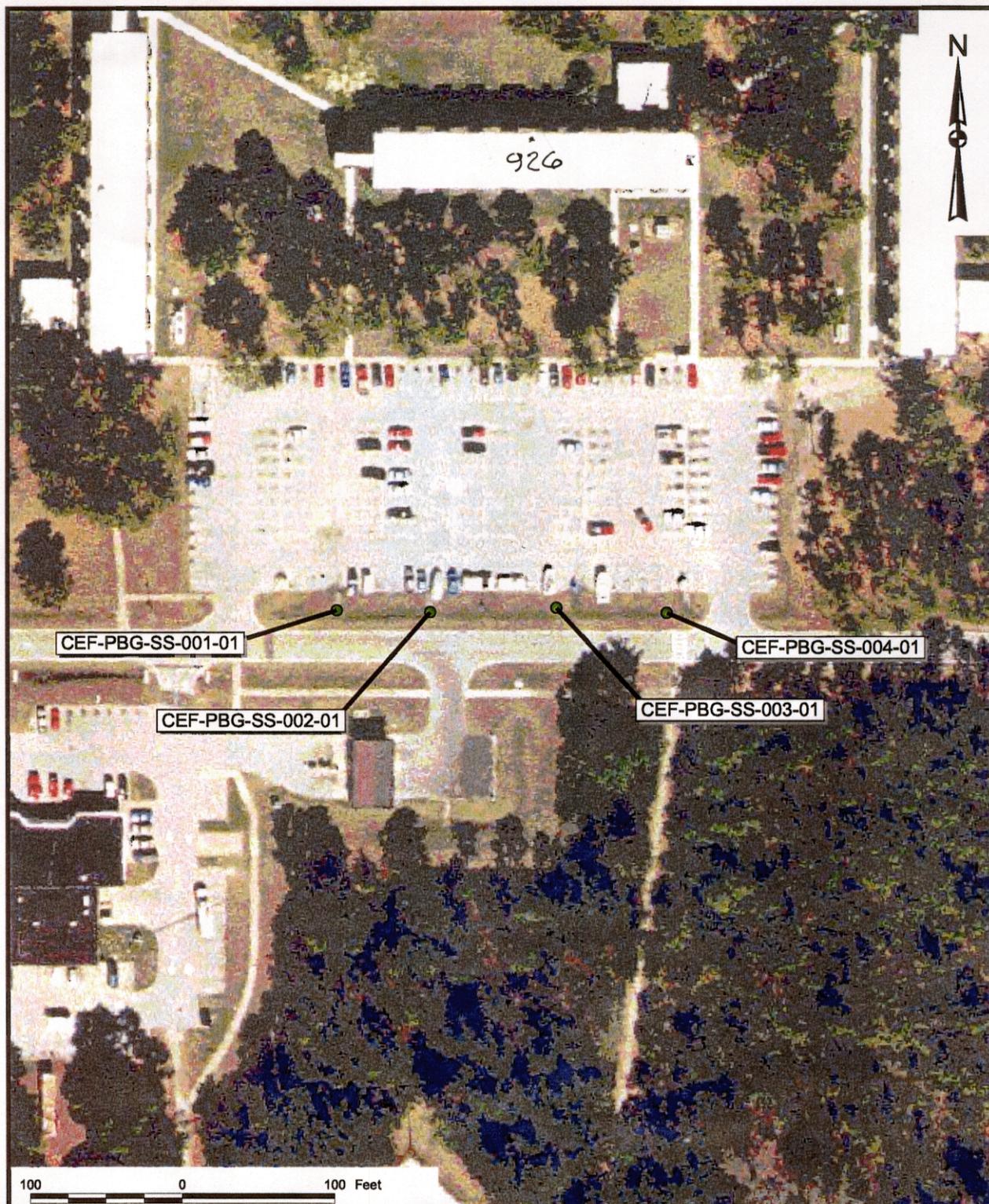


DRAWN BY MJJ	DATE 26April99
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



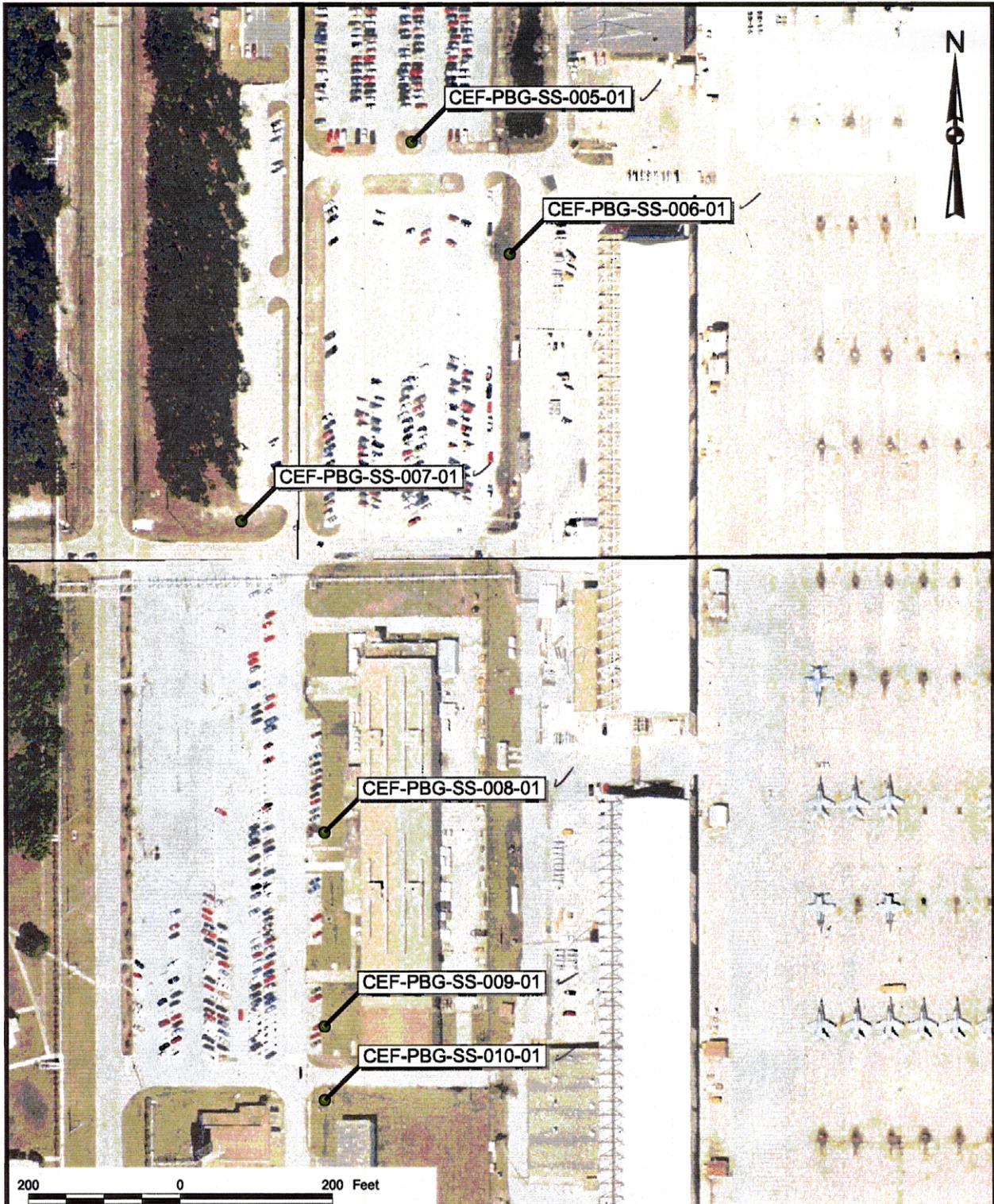
PROPOSED BACKGROUND SAMPLE LOCATIONS FOR PARKING LOT AREA  
NAS CECIL FIELD  
JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE B	REV 0



DRAWN BY _____ DATE _____			<b>ENLARGEMENT OF PARKINGLOT AREA 1</b> <b>PROPOSED BACKGROUND SAMPLE LOCATIONS</b> <b>FOR PARKINGLOT AREA</b> <b>NAS CECIL FIELD</b> <b>JACKSONVILLE, FLORIDA</b>		CONTRACT NUMBER _____
CHECKED BY _____ DATE _____			APPROVED BY _____ DATE _____		
COST/SCHEDULE-AREA _____			APPROVED BY _____ DATE _____		
SCALE AS NOTED			DRAWING NO. _____ FIGURE C REV 0		

UNKNOWABLE 2V

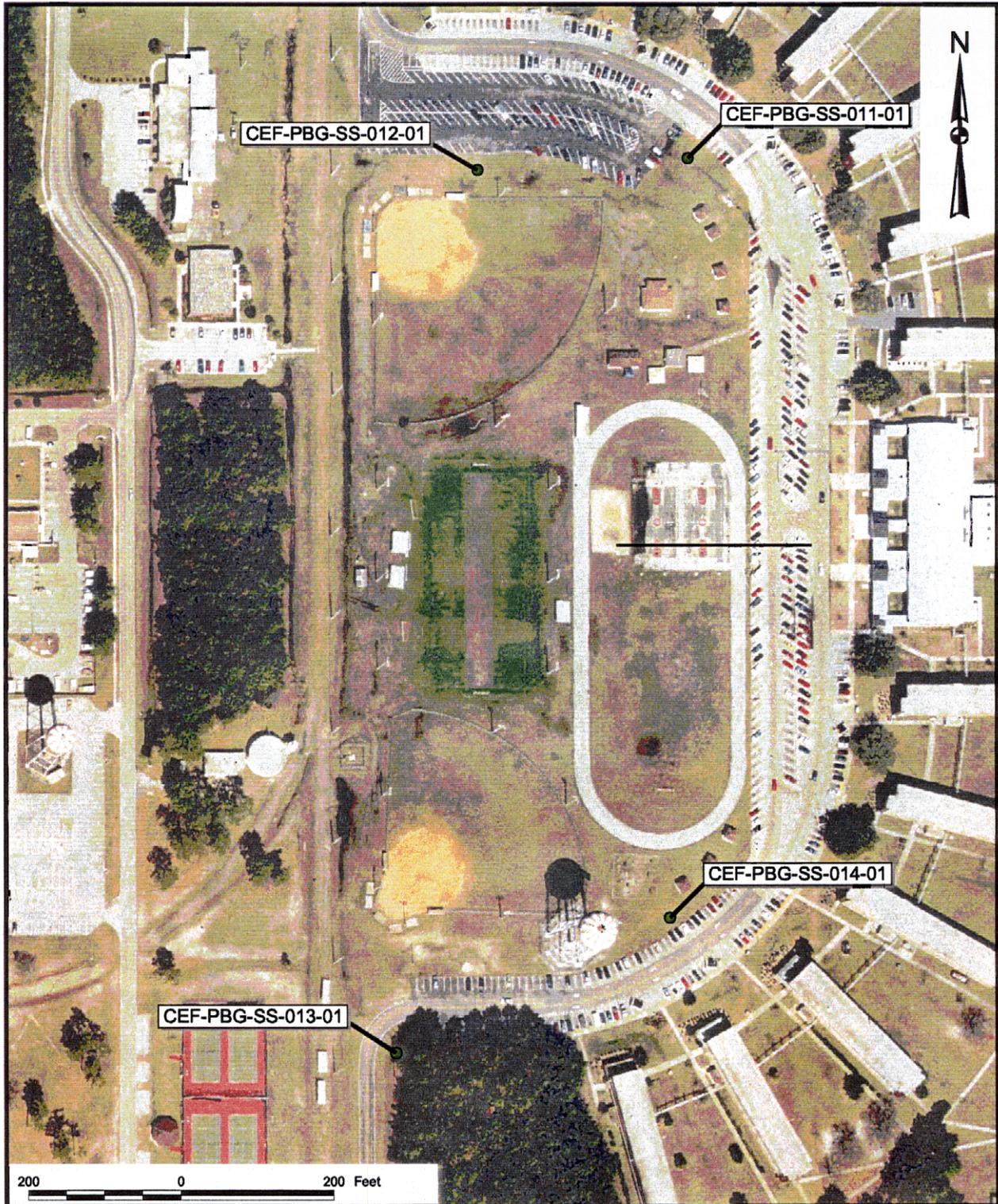


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COST/SCHEDULE-AREA	
SCALE AS NOTED	

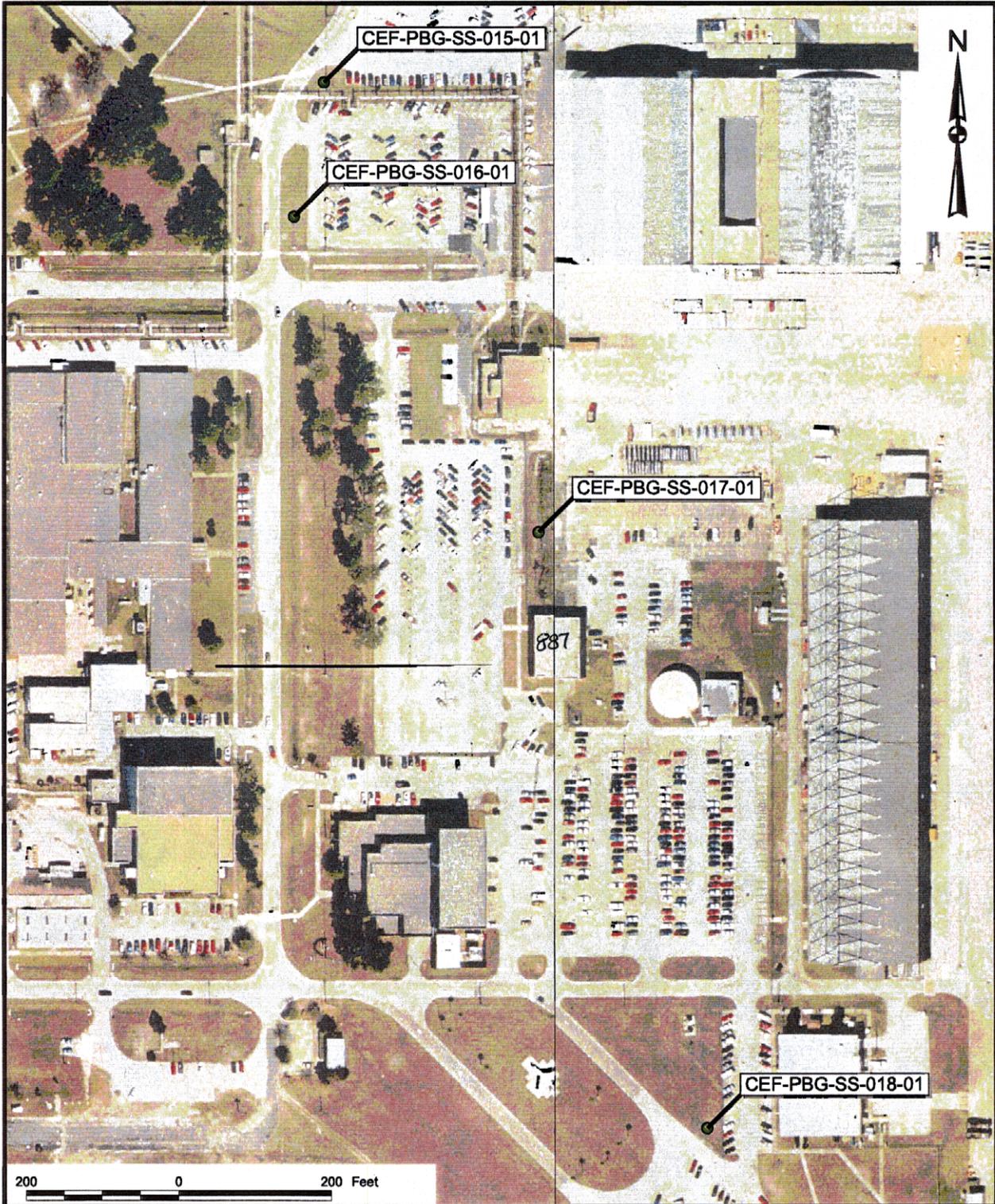


**ENLARGEMENT OF PARKINGLOT AREA 2**  
**PROPOSED BACKGROUND SAMPLE LOCATIONS**  
**FOR PARKINGLOT AREA**  
**NAS CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

CONTRACT NUMBER	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REV
FIGURE D	0



DRAWN BY _____ DATE _____			<b>ENLARGEMENT OF PARKINGLOT AREA 3          PROPOSED BACKGROUND SAMPLE LOCATIONS          FOR PARKINGLOT AREA          NAS CECIL FIELD          JACKSONVILLE, FLORIDA</b>		CONTRACT NUMBER _____
CHECKED BY _____ DATE _____			APPROVED BY _____ DATE _____		
COST/SCHEDULE-AREA _____			APPROVED BY _____ DATE _____		
SCALE AS NOTED			DRAWING NO. _____	REV 0	



DRAWN BY	DATE
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



ENLARGEMENT OF PARKINGLOT AREA 4  
 PROPOSED BACKGROUND SAMPLE LOCATIONS  
 FOR PARKINGLOT AREA  
 NAS CECIL FIELD  
 JACKSONVILLE, FLORIDA

CONTRACT NUMBER	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REV
FIGURE F	0