



April 5, 2001

IT Corporation

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MOFFETT FIELD

SSIC NO. 5090.3

A Member of The IT Group

Ms. Theodoris Broussard, Code 06B2.TB
Department of the Navy
BRAC Operations, Southwest Division
Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, California 92132-5190

Addressee: Ms. Mary Parker, SWDiv RPM, Code 06CT.MP

Contract: N62474-98-D-2076, Environmental Remedial Action Contract

Contract Task Order: 0018; DCN 1222.0

Subject: Monitoring and Inspection Report No. 1, Sites 1 and 2 Monitoring and
Landfill Maintenance, Moffett Federal Airfield, Moffett Field, California

Dear Ms. Parker:

The purpose of this letter is to document monitoring and inspection activities that have occurred since Contract Task Order (CTO) 018 was awarded on July 20, 2000. On January 8, 2001, Bob Hulet replaced the former IT Corporation Project Manager, Dennis Julio, who had previously resigned. CTO 018 is a continuation of the work originally scoped in Delivery Order (DO) 108.

Should you have any questions or require further information, please contact the undersigned at (925) 288-9898.

Sincerely,

IT CORPORATION

Bob Hulet, C.P.G.
Sr. Project Manager
CTO 018

Brenda L. Safreed
Contract Administration Manager
EFA-West PMO

Enclosures

cc: Mr. Gary Munekawa, ROICC RPM/NTR, Code N7E2

Mr. Dave Smith, ROICC CMT, Code N7R2

pc: Project File

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EFAWEST Contract No.: N62474-98-D-2076

DCN: 1222.0

Monitoring and Inspection Report No. 1
Sites 1 and 2 Monitoring and Landfill Maintenance

**MONITORING AND INSPECTION REPORT NO. 01
SITES 1 AND 2 MONITORING AND LANDFILL MAINTENANCE
MOFFETT FEDERAL AIRFIELD, MOFFETT FIELD, CALIFORNIA
PROJECT MANGER: BOB HULET
CTO 018**

This Monitoring and Inspection Report summarizes activities performed by IT Corporation (IT) through April 5, 2001 on CTO 018 of Engineering Field Activity, West (EFA West) Contract No. N62474-98-D-2076.

SCOPE

The scope of work includes performing quarterly groundwater sampling and monitoring at Sites 1 and 2 of Moffett Federal Airfield, with limited maintenance to the landfills and wells, for a period of one calendar year (September 2000 through August 2001). The Site 1 Landfill encompasses an area of approximately 12 acres, and the Site 2 Landfill encompasses an area of approximately 5 acres. IT completed closure of the Sites 1 and 2 Landfills between June 1997 and December 1998 as part of a separate delivery order (DO 059) for EFA West. Initial operations and maintenance activities for the Site 1 and 2 Landfills were conducted by IT under DO 108, and this CTO is essentially a continuation of DO 108.

Site 1 monitoring and sampling is to be conducted on 9 groundwater monitoring wells, 2 landfill leachate monitoring wells, and 4 landfill gas monitoring wells. Site 2 monitoring and sampling is to be conducted on 6 groundwater monitoring wells. Landfill maintenance activities include clearing of vegetation, erosion and settlement control, drainage control, well inspection and repair, and general facilities maintenance (roads, fences, monuments, signs, etc.).

SAMPLING AND MONITORING ACTIVITIES

The Fourth Quarter 2000 well monitoring and sampling was completed on October 30, 2000. Analytical data from this sampling event has been compiled, and validation and database management activities are complete. The associated Quarterly Post-Closure Monitoring Report was transmitted to the Navy on February 28, 2001.

The First Quarter 2001 well monitoring and sampling was completed on January 18, 2001. Analytical data from this sampling event has been compiled, and validation and database management activities are complete. The associated Quarterly Post-Closure Monitoring Report was transmitted to the Navy on April 3, 2001.

MAINTENANCE ACTIVITIES

CTO 018 was awarded and incrementally funded on July 20, 2000 in the amount of \$80,000. The total negotiated contract value is \$244,648. Per the Navy's recommendation, periodic

maintenance activities (involving minor landfill cap repairs, perimeter road maintenance, vegetative maintenance, and permanent structure repairs) are to be performed after award of remaining project funding, so that the current incremental funding can be focused towards completion of agency-mandated quarterly monitoring activities.

Due to limited funding, the only landfill maintenance performed under CTO 018 were annual maintenance completed in December 2000 and maintenance to close-out CTO 018 completed in March 2001.

The annual maintenance completed on December 12, 2000, included the following:

- Site mowing
- Seeding bare areas
- Building, setting and painting raptor perches
- Repairing the gate at Site 2
- Filling and compacting rodent burrows

An inspection of Sites 1 and 2 was conducted on March 20, 2001 and is documented in Attachment A. Follow-up maintenance was completed on March 20 and 23, 2001 and include the following activities:

- Painting and re-setting raptor perches
- Repairing damaged well vault for W2-6 at Site 2
- Replacing W1-1 cover
- Filling and compacting rodent burrows

Site 1 Landfill Monuments and North Perimeter Road Settlement Markers were surveyed on March 20, 2001. A summary of the data is provided in Attachment B. Landfill monuments are designated as "LF" (LF-1 and LF-2 are located on the landfill mound, LF-3 is located on the western portion of the landfill, and LF-4 is located just east of the landfill). Road settlement markers are designated as "SM". Survey data collected during the previous two quarters of monitoring (January 28, 2000 and May 2, 2000 are also provided. Overall, this data does not reveal significant landfill settlement.

ATTACHMENT A
LANDFILL INSPECTION FORMS

**MOFFETT SITE 1 LANDFILL GENERAL INSPECTION LIST (20 MARCH 2001)
CONTRACT TASK ORDER 018**

AREA	ITEM	CONDITION			COMMENTS
		GOOD	NEEDS MAINTENANCE	N/A	
General Site	Access Roads	X			
	Warning/Instructional Signs	X			
	Litter	X			
	Security fencing/gates	X			
Landfill Cap	Erosion	X			
	Settling	X			
	Settlement Markers				
	Cracking	X			
	Rodent Burrows		Burrows @ east side		Corrected on 3/23/01
	Vegetation	X	High @ north side		
	Deep Rooted Vegetation	X			
	Water Drainage	X			
Rip-Rap	X				
Landfill Gas Vents	Well Cap Integrity		LGMW1-4 Label		Corrected on 3/23/01
	Water Drainage	X			
	Traffic Protection	X			
	Locks	X			
Gas Venting Trench	Riser Integrity	X	Needs label		Corrected on 3/23/01
Groundwater Extraction Trench					W1-23 missing cover bolts. Some sludge @ bottom.
	Vault Integrity	X			W1-22 small amount of floating sludge. Water present.
	Water Drainage	X			
	Traffic Protection	X			
	Locks			X	
Groundwater Monitoring Wells	Well Cap Integrity	X	W1-1 broken cover		Replacement lid delivered to ROICC.
	Water Drainage	X			
	Traffic Protection	X			
	Locks	X			
Groundwater Piezometers	Well Cap Integrity	X			
	Water Drainage	X			
	Traffic Protection	X			
	Locks	X			
Stormwater Runoff Control	Water Drainage	X			
	Culvert/trench Drainage	X			
	Rip-Rap	X			
	Settlement	X			
	Erosion	X			

**MOFFETT SITE 2 LANDFILL GENERAL INSPECTION LIST (20 MARCH 2001)
CONTRACT TASK ORDER 018**

AREA	ITEM	CONDITION			COMMENTS
		GOOD	NEEDS MAINTENANCE	N/A	
General Site					
	Access Roads	X			
	Warning/instructional Signs	X			
	Litter	X			
	Security fencing/gates	X			
Groundwater Monitoring Wells					
	Well Cap Integrity	X			
	Water Drainage	X			
	Traffic Protection	X	W2-6 Broken box		Corrected on 3/23/01
	Locks	X			
Stromwater Runoff Control					
	Water Drainage	X			
	Trench Drainage	X			
	Storm Drain Drop Inlet	X			

ATTACHMENT B

LANDFILL MONUMENT SURVEY DATA



Wednesday, March 21, 2001

I.T. Group
4005 Port Chicago Highway
Concord, CA 94520
Attn: Bob Hulet

Re: Quarterly Monitoring at Site 1 Moffett Federal Airfield

Dear Bob,

Below is a table of coordinates for the landfill and subsidence monuments installed at Site 1.

Name	January 28, 2000			May 2, 2000			March 20, 2001		
	Northing	Easting	Elev.	Northing	Easting	Elev.	Northing	Easting	Elev.
LF-1	342949.46	1549611.02	19.41	342949.49	1549610.98	19.36	342949.45	1549610.93	19.30
LF-2	342594.68	1549651.19	22.16	342594.69	1549651.20	22.11	342594.70	1549651.09	22.07
LF-3	342592.30	1549252.70	7.01	342592.31	1549252.71	6.96	342592.29	1549252.70	6.96
LF-4	342230.42	1549831.20	2.86	342230.43	1549831.20	2.86	342230.43	1549831.19	2.86
SM-1	342755.41	1549080.35	1.96	342755.35	1549080.21	1.90	342755.37	1549080.30	1.88
SM-2	342699.32	1549026.86	2.09	342699.26	1549026.79	2.03	342699.37	1549026.73	2.00
SM-3	342684.69	1549015.92	1.92	342684.53	1549015.83	1.87	342684.57	1549015.83	1.80
SM-4	342651.01	1548998.63	2.00	342650.90	1548998.52	1.96	342650.91	1548998.50	1.94
SM-5	342591.68	1549001.71	2.38	342591.64	1549001.71	2.35	342591.60	1549001.64	2.35
SM-6	342815.55	1549138.36	1.98	342815.44	1549138.32	1.92	342815.48	1549138.33	1.90

LF 1 through 4 are brass caps monuments stamped on November 3, 1998. SM 1 through 6 are cotton spindles (except SM-2 which is a 2"x 2" wooden hub) set to monitor the northwest area of the Perimeter Road known as the "boil".

If you have any questions, please contact us at (209) 722-3200.

Golden Valley Engineering & Surveying, Inc.



Robert K. Granata, L.S.

rkg/RKG