



July 14, 2000

N00296.000070
MOFFETT FIELD
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IT Corpor
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Concord, CA 94520-1120
Tel. 925.288.9898
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A Member of The IT Group

773189-ITNHO-1010-1

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. Lynn Hornecker, SWDiv RPM, Code 06CC.LMH

Contract: N62474-93-D-2151, Environmental Remediation Contract for Sites in
Northern and Central California and in Nevada

Delivery Order: DO 108

Subject: Fourth Round Monitoring and Inspection, Sites 1 and 2 Monitoring and
Landfill Maintenance, Moffett Federal Airfield, Moffett Field, California

Dear Ms. Hornecker:

The Fourth Round Quarterly Sampling and Monitoring (consisting of groundwater, leachate, and gas wells) for the above-referenced delivery order was conducted on May 1 and 2, 2000. Daily summaries of the monitoring activities are provided in Attachment A. Samples were analyzed at the program-approved analytical laboratory and the data has been compiled and validated, in preparation for the Quarterly Post-Closure Monitoring Report, which is scheduled to be issued in July 2000.

In conjunction with this monitoring and in conformance with the project plans, an inspection of the Site 1 and Site 2 Landfills was also completed on May 2, 2000. Necessary maintenance tasks were identified, as documented on the inspection forms provided in Attachment B. Field implementation of these tasks will be performed, to the extent possible, in a single mobilization (most likely during Autumn 2000). Most recent landfill maintenance activities were conducted between November 8 and 12, 1999.

Site 1 Landfill Monuments and North Perimeter Road Settlement Markers were surveyed on May 2, 2000. A summary of the data is provided in Attachment C. 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) and road settlement markers are designated as "SM". Survey data collected during the previous two quarters of monitoring (October 18, 1999 and January 28, 2000) are also provided. Overall, this data does not reveal significant landfill settlement.

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

Sincerely,

IT CORPORATION



Dennis R. Julio, P.E.
Project Manager
D.O. 0108



Don Marini, P.E.
Deputy Program Manager
EFA-West PMO

Enclosures

cc: Mr. Gary Munekawa, Moffett Field ROICC RPM/NTR, Code N7E2
Mr. Dave Smith, Moffett Field ROICC CMT, Code N7R2
Project File

ATTACHMENT A
SAMPLING ACTIVITY SUMMARIES

5/1/2000

Work Performed Today

TASK	Name	Company	Employee No.	Title	Hours Worked
Groundwater and Vapor Sampling at Landfill Site 1	Rose Condit	IT	958338	Project. Chemist	11.5
	Kevin McIlvenna	TRS	135991	Sample Tech	13
	Karel Detterman	IT	958332	Geologist	10.5

Collected water level reading, monitored vapor vents, and started groundwater sampling.

Manifested Materials:

Shipped 7 groundwater samples to APCL from Landfill Site 1

Equipment On Site:

- 1- IT Truck
- 1 Dissolved Oxygen Meter (EquipCo – Rental)
- 1 Turbidity Meter- (EquipCo – Rental)
- 2 Peristaltic Pump –(IT equipment)
- 1 pH/ORP/Cond/Temp. Meter (YSI) (EquipCo-Rental)
- 1 pH/turbidity/DO/cond. (Horiba)Meter (EquipCo-Rental)
- 1 Gas Tech Methane analyzer (EquipCo – Rental)

5/2/2000

Work Performed Today

TASK	Name	Company	Employee No.	Title	Hours Worked
Groundwater Sampling at Landfill Site 1 and Groundwater Sampling at LF Site 2	Rose Condit	IT	958338	Project. Chemist	11.5
	Kevin McIlvenna	TRS	135991	Sample Tech	10
	Karel Detterman	IT	958338	Geologist	8.5

Manifested Materials:

Shipped 3 groundwater samples from Site 1, and 7 groundwater samples from Site 2 to APCL

Equipment On Site:

- 1 IT Truck
- 1 Dissolved Oxygen Meter (EquipCo - Rental)
- 1 Turbidity Meter- (EquipCo - Rental)
- 2 Peristaltic Pump -(IT equipment)
- 1 pH/ORP/Cond/Temp. Meter (YSI) (EquipCo-Rental)
- 1 pH/turbidity/DO/cond. (Horiba)Meter (EquipCo-Rental)
- 1 Gas Tech Methane analyzer (EquipCo - Rental)

ATTACHMENT B

LANDFILL INSPECTION FORMS

Moffett Site 1 Landfill General Inspection List (05-02-2000)
Delivery Order No. 0108

Item	Condition			Comments
	Good	Needs Maintenance	N/A ¹	
General Site - access roads - warning/instructional signs - litter - security fencing/gates		x		Minor cracking along eastern road NASA signs in tact
Landfill Cap - erosion - settling - settlement markers - cracking - rodent burrows - vegetation - deep rooted vegetation - water drainage - rip rap	x x x x x x x x	x		Minor cracking in select areas ² Trim weeds and cut grass, as necessary ³
Landfill Gas Vents - riser condition	x			Minor cracking in concrete bases
Landfill Gas Monitoring Wells - well cap integrity - water drainage - traffic protection - locks	x x x x			
Gas Venting Trench - riser integrity	x			
Groundwater Extraction Trench Wells - vault integrity - water drainage - traffic protection - locks	x x x x			
Groundwater Monitoring Wells - well cap integrity - water drainage - traffic protection - locks	x x x x	x		W1-14 east bollard is loose
Groundwater Piezometers - well cap integrity - water drainage - traffic protection - locks	x x x x	x		PZ1-21: 2-in. PVC cap missing (fell inside)
Stormwater Runoff Control - water drainage - culvert/trench drainage - rip rap - settlement - erosion	x x x x x	x		Silt traps in tact (1.5-inch crushed stone) Clean out culvert inlets/outlets

Notes:

1. Not applicable.
2. Minor cracking observed along "Northwest Corridor" and along western and eastern toes of Waste Consolidation Area slopes.
3. Approximately 50'x50' area in "Western Depression" may require vegetative soil and reseeding.

Moffett Site 2 Landfill General Inspection List (05-02-2000)
Delivery Order No. 0108

Item	Condition			Comments
	Good	Needs Maintenance	N/A ¹	
General Site - access roads - warning/instructional signs - litter - security fencing/gates	x x x x			Trim weeds and cut grass, as necessary
Groundwater Monitoring Wells - well cap integrity - water drainage - traffic protection - locks	x x x	x		W2-6 lock tab is snapped off
Stormwater Runoff Control - water drainage - trench drainage - storm drain drop inlet	x x	x		Trim/remove weeds, as necessary

Notes:

1. Not applicable.

ATTACHMENT C

LANDFILL MONUMENT SURVEY DATA



Wednesday, July 12, 2000

I.T. Group
 4005 Port Chicago Highway
 Concord, CA 94520
 Attn: Dennis Julio

Re: Quarterly Monitoring at Site 1 Moffett Federal Airfield

Dear Dennis,

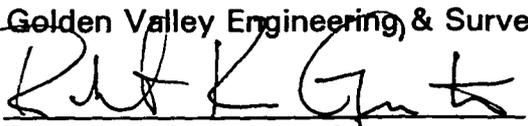
Below is a table of coordinates for the landfill and subsidence monuments installed at Site 1.

Name	October 18, 1999			January 28, 2000			May 2, 2000		
	Northing	Easting	Elev.	Northing	Easting	Elev.	Northing	Easting	Elev.
LF-1	342949.44	1549610.98	19.42	342949.46	1549611.02	19.41	342949.49	1549610.98	19.36
LF-2	342594.68	1549651.17	22.18	342594.68	1549651.19	22.16	342594.69	1549651.20	22.11
LF-3	342592.29	1549252.71	7.02	342592.30	1549252.70	7.01	342592.31	1549252.71	6.96
LF-4	342230.42	1549831.20	2.86	342230.42	1549831.20	2.86	342230.43	1549831.20	2.86
SM-1	342755.38	1549080.36	1.98	342755.41	1549080.35	1.96	342755.35	1549080.21	1.90
SM-2	342699.30	1549026.87	2.13	342699.32	1549026.86	2.09	342699.26	149026.79	2.03
SM-3	342684.62	1549015.92	1.96	342684.69	1549015.92	1.92	342684.53	1549015.83	1.87
SM-4	342650.93	1548998.58	2.03	342651.01	1548998.63	2.00	342650.90	1548998.52	1.96
SM-5	342591.68	1549001.71	2.33	342591.68	1549001.71	2.38	342591.64	1549001.71	2.35
SM-6	342815.48	1549138.33	2.00	342815.55	1549138.36	1.98	342815.44	1549138.32	1.92

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.

 7-12-00
Robert K. Granata, L.S.

rkg/RKG