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**FIELD CHANGE/MODIFICATION FORMS
PHASE I AND PHASE II REMEDIAL INVESTIGATION**

**ROCKWELL INTERNATIONAL SITE
ALLEGAN, MICHIGAN**



FIELD MODIFICATION FORM

ITEM NO. 1

Project: ROCKWELL ALLEIGH MI.
Project No.: 20012
Requested By: ROCKWELL / REMCOR
Contract: _____

Description of Modification: TO DELETE GEOPHYSICAL SURVEY.
ADD 4 TEST PITS NW. OF MAIN BLDG., ADD P-12, P-13, P-14,
P-15, P-16, MOVE MW-4, MW-5, MW-6, MW-7, AND START
MW-13 WAS MISTAKE ON DRAWING.

Reason for Modification: TOO MUCH INTERFERENCE FOR ACCURATE GEOPHYSICAL SURVEY RESULTS,
TEST PITS: ADDITIONAL INFO IN THE AREA, ADD P-12 TO CONFIRM LANDFILL PRESENCE,
P-13, P-14: TO CONFIRM OLD SLUDGE AND PRESENCE, P-15, P-16 TO AID IN
GW. FLOW ANALYSIS, MOVE MW-4, MW-5 TO MORE CONVENIENT LOCATION,
MOVE MW-6, MW-7 SOUTH OF FENCE DUE TO POSSIBLE PRESENCE OF
DEBRIS.

Refer to: LETTER FROM REMCOR TO T.O. DEFOUN DATED DEC. 14 1989

Refer to Work Plan/ QAPP Page and Paragraphs: _____

It is understood and mutually agreed that this form is to be used only to record minor modifications which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any modifications involving change to the Work Plan or QAPP documents must be approved by USEPA prior to execution.

APPROVAL

Donohue On-Site Representative

By: Steve Spiswak STEVE SPISWAK

Date: 2-2-90

PRP Representative

By: Tom DeFoun

Title: _____

Date: 2-2-90

USEPA RPM

By: POZ VERBAL T.O. DEFOUN

Title: _____

Date: 2-2-90

- 1st Copy USEPA
- 2nd Copy PRP
- 3rd Copy - Field Files
- 4th Copy - Office Files



FIELD MODIFICATION FORM

ITEM NO. 2

Project: ARCS / ROCKWELL
Project No.: 20012
Requested By: ROCKWELL / RCMC-JK
Contract: _____

Description of Modification: TO DELETE METHANOL RINSE ON DRILL RIG AUGERS DURING DECON.

Reason for Modification: TO STREAMLINE OPERATIONS

Refer to: TOM DEFOVW / MITCH BROURMAN

Refer to Work Plan QAPP Page and Paragraphs: pg 3-3 par 2

It is understood and mutually agreed that this form is to be used only to record minor modifications which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any modifications involving change to the Work Plan or QAPP documents must be approved by USEPA prior to execution.

APPROVAL

Donohue On-Site Representative

By: Steve Spiewak **STEVE SPIEWAK**

Date: 2-2-90

PRP Representative

By: TOM DEFOVW

Title: _____

Date: 2-2-90

USEPA RPM

By: PER VERBAL TOM WILLIAMS

Title: _____

Date: 2-2-90

- 1st Copy USEPA
- 2nd Copy PRP
- 3rd Copy - Field Files
- 4th Copy - Office Files



FIELD MODIFICATION FORM

ITEM NO. 3

Project: ROCKWELL, ALLEGAN, MI
Project No.: 20012
Requested By: ROCKWELL/REMUR
Contract: _____

Description of Modification TO ALLOW FOR THE DECON OF THE DRILL RIGS AND DOWNHOLE DRILLING EQUIPMENT (I.E. BITS, AUGERS, ETC.) TO CONSIST OF STEAM CLEANING ONLY. DECON OF SPLIT SPOON SAMPLERS WILL NOT CHANGE.

HOWEVER, IF CONTAMINATED MATERIALS (OILS, ETC.) ARE ENCOUNTERED DURING DRILLING, A DETERGENT WASH WILL BE ADMINISTERED TO THE DOWNHOLE DRILLING EQUIPMENT PRIOR TO STEAM CLEANING, TO ENSURE EQUIPMENT IS USUALLY CLEAN.

Reason for Modification: STREAMLINE OPERATIONS AS PER STANDARD OPERATING PROCEDURES.

Refer to: _____

Refer to Work Plan QAPP Page and Paragraphs: SECTION 3, P. 3-3, PAR. 2

It is understood and mutually agreed that this form is to be used only to record minor modifications which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any modifications involving change to the Work Plan or QAPP documents must be approved by USEPA prior to execution.

APPROVAL

Donohue On-Site Representative

By: Steve Lynch

Date: 2-14-90

PRP Representative

By: Mitchell D. Brown

Title: Project Geophysicist

Date: 2-14-90

USEPA RPM

By: per VERBAL

Title: _____

Date: 2-15-90

- 1st Copy USEPA
- 2nd Copy PRP
- 3rd Copy - Field Files
- 4th Copy - Office Files

CONVERSATION RECORD		TIME	DATE
		2:00	2/27/90 - 8:00
TYPE <input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input checked="" type="checkbox"/> TELEPHONE			
Location of Visit/Conference: <input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING			
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU		ORGANIZATION (Office, Dept., Bureau, etc.)	TELEPHONE NO.
Tom De Fouw		ROCKWELL	313 435-2705
SUBJECT			
SCOPE MODIFICATIONS			

ROUTING	
NAME/SYMBOL	INT.
T. DE FOUW	
F. SUTTON	
S. BEEBE	

SUMMARY

I CALLED MR. DEFOUW AND INFORMED HIM THAT THE SCOPE CHANGES REQUESTED IN THE DECEMBER 14, 1989 LETTER FROM REMCOR TO HIM WERE ACCEPTABLE AND THAT I WANTED A COPY OF THE ORIGINAL MAP WHICH SHOWED THE OLD LAGOON LOCATION.

ALSO DISCUSSED WAS REPLACEMENT OF METHANOL FOR SPLIT SPOON RINSING WITH ACETONE AND ELIMINATION (SPEARM CLEAN ONLY) A METHANOL AUGER BRINSE WHICH I AGREED TO.

CHANGES TO THE OAPP SPECIFICALLY ADDING DIFFERENT PRESERVATIVE WAS DISCUSSED AND WE AGREED WAS INAPPROPRIATE CHANGES IN SAMPLING WILL REQUIRE FORMAL APPROVAL.

ACTION REQUIRED

MAP SHOWING OLD LAGOON TO BE SENT

NAME OF PERSON DOCUMENTING CONVERSATION	SIGNATURE	DATE
TOM WILLIAMS	Tom Williams	2/2/90
ACTION TAKEN		

SIGNATURE	TITLE	DATE

CONVERSATION RECORD

TIME 2:10

DATE 2/2/90

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING

OUTGOING

ROUTING

NAME/SYMBOL INT

T. DEFOUW

F. SUTTON

S. BEEBE

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

TOM DEFOUW

ORGANIZATION (Office, Dept., Bureau, etc.)

ROCKWELL

TELEPHONE NO.

313
435-2705

SUBJECT

SCOPE MODIFICATIONS

SUMMARY

I CALLED MR. DEFOUW AND INFORMED HIM THAT THE SCOPE CHANGES REQUESTED IN THE DECEMBER 14, 1989 LETTER FROM REMCOR TO HIM WERE ACCEPTABLE AND THAT I WANTED A COPY OF THE ORIGINAL MAP WHICH SHOWED THE OLD LAGOON LOCATION.

ALSO DISCUSSED WAS REPLACEMENT OF METHANOL FOR SPLIT SPON RINSING WITH ACETONE AND EQUIMIN (STEAM CLEAN ONLY). A METHANOL RUBBER BRINSE WHICH I AGREED TO. INTERPLATED BY TOM DEFOUW (MAY) -> 6/6/90 -> ~~STEAM CLEAN ONLY~~ CHANGES TO THE MAP SPECIFICALLY ADDING DIFFERENT PRESERVATIVE WAS DISCUSSED AND WE AGREED WAS INAPPROPRIATE. CHANGES IN SAMPLING WILL REQUIRE FORMAL APPROVAL.

Handwritten notes:
2-14-90
on
Tom A.
detour by

ACTION REQUIRED

MAP SHOWING OLD LAGOON TO BE SENT

NAME OF PERSON DOCUMENTING CONVERSATION

TOM WILLIAMS

SIGNATURE

Tom Williams

DATE

2/2/90

ACTION TAKEN

RECEIVED

FEB 9 1990

SIGNATURE

T. H. DeFouw

TITLE

DATE

Donohue
Engineers & Architects
FIELD MEMORANDUM

Date 10/2/72

Time _____

Person W. H. ...

Subject GROUNDWATER MONITORING ...

Project Number 2012-200

ALL WELLS WILL SIT FOR 2 WEEKS AFTER WELL DEVELOPMENT BEFORE
STARTING PUMPING.

SHALLOW WELLS WILL SIT FOR 48 HOURS AFTER WELL DEVELOPMENT
BEFORE PUMPING/COUPLING.

DEPTHS AT ALL WELLS SHALL BE MEASURED WITHIN 24 HOURS AFTER PUMPING.

PROTECTIVE WELLS SHALL BE SAMPLED WITHIN A REASONABLE TIME PERIOD
(i.e., 2-3 DAYS).

FINISHED

This document does not authorize a change in any contractual agreement between the Contractor and the Owner.

White - Original
Yellow - File
Pink -
Goldenrod -

Donohue
Engineers & Architects
FIELD MEMORANDUM

Date 11/21/74

Time _____

Person W. J. SULLIVAN

Subject PLASTIC VERSUS GLASS BOTTLES

Project Number 20012, 200

THIS IS TO CONFIRM THE REQUEST BY REMINDER TO SUBSTITUTE PLASTIC BOTTLES FOR GLASS BOTTLES DURING GROUNDWATER SAMPLING FOR INVESTIGATION AND EOD PURPOSES.

THE USE OF GLASS BOTTLES IS STATED IN THE WORK PLAN FOR RIFE AT THE SULLIVAN INTERNATIONAL SULLIVAN MI FACILITY IN TABLE 2.1 OF THE 11/15/74 QUALITY ASSURANCE PROJECT PLAN IN TABLE 4.2.

This document does not authorize a change in any contractual agreement between the Contractor and the Owner.

White - Original
Yellow - File
Pink -
Goldenrod -



FIELD MODIFICATION FORM

ITEM NO. 4

Project: ROCKWELL, ALLEGAN, MI

Project No.: 20012

Requested By: ROCKWELL/REMCON

Contract: _____

Description of Modification: _____

(A) CONFIRMATION OF REQUEST BY REMCON TO SUBSTITUTE PLASTIC BOTTLES FOR GLASS BOTTLES DURING GROUNDWATER SAMPLING FOR NUTRIENTS AND COD ANALYSIS.

(B) GROUNDWATER SAMPLING TIME FRAME:

- 1. DEEP WELLS WILL SIT FOR 2 WEEKS AFTER WELL DEVELOPMENT BEFORE PURGING/SAMPLING.
- 2. SHALLOW WELLS WILL SIT FOR 48 HOURS AFTER WELL DEVELOPMENT BEFORE PURGING/SAMPLING.
- 3. SAMPLING AT ALL WELLS SHALL OCCUR WITHIN 24 HOURS AFTER PURGING.
- 4. RESPECTIVE WELLS SHALL BE SAMPLED WITHIN A REASONABLE TIME FRAME (2-3 DAYS).

Reason for Modification: _____

Refer to: (B) TOM WILLIAMS

Refer to Work Plan/ QAPP Page and Paragraphs: (A) WORK PLAN TABLE 31 AND QAPP TABLE 45.

It is understood and mutually agreed that this form is to be used only to record minor modifications which do not increase or decrease the contract price or change the intent of a specific provision of the contract. Any modifications involving change to the Work Plan or QAPP documents must be approved by USEPA prior to execution.

APPROVAL

Donohue On-Site Representative

By: [Signature]

Date: MARCH 9, 1990

USEPA PRP Representative

By: [Signature] Tom Williams

Title: Agmt. Mgr.

Date: 3-9-90

PRP Representative USEPA RPM

By: [Signature]

Title: [Signature]

Date: 3-7-90 (1)

- 1st Copy USEPA
- 2nd Copy PRP
- 3rd Copy - Field Files
- 4th Copy - Office Files



REMCOR, Inc. • 701 Alpha Drive • P.O. Box 38310 • Pittsburgh, PA 15238-8310 • 412-963-1106

November 19, 1992

Project No. 92192

Ms. Karen L. Sikora
Remedial Project Manager
U.S. Environmental Protection Agency,
Region V, Emergency Response Branch (HSRW-6J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Clarification of Field Investigation Activities
Remedial Investigation/Feasibility Study
Work Plan Addendum
Allegan, Michigan Facility

Dear Ms. Sikora:

As you requested on Thursday, November 12, 1992, Remcor, Inc. (Remcor) has prepared this letter to clarify Remcor's position regarding the use of photoionization detectors (PIDs) for field screening of soils and the deletion of headspace screening from the field investigation of the above-captioned project.

It was Remcor's intent to use only HNu™ PIDs during this field investigation in accordance with the U.S. Environmental Protection Agency- (EPA-) approved Quality Assurance Project Plan (QAPP) (Section 6, Page 2 of 2). Representatives of Rockwell International Corporation (Rockwell) expressed some concern over the absence of a Photovac™ PID for this portion of the investigation as such equipment had been used in conjunction with HNU's™ during the 1990 field investigation work; hence, this issue was brought to your attention. The EPA agreed that the use of the Photovac™ PID was not necessary based on the fact that the Photovac™ was of limited use during the 1990 investigation (due to its sensitivity to weather conditions which greatly decreased its value), and because the HNu™, only, was specified in the QAPP.

Within the Remedial Investigation/Feasibility Study Work Plan Addendum, Remcor stated that field screening, to be performed with an HNu™ PID would be used to select samples not otherwise specified for laboratory analyses. As this procedure was identified for sample selection in lieu of the headspace analyses used during the 1990 field investigation, Remcor did not, therefore, also intend to perform headspace analyses. The use of headspace analyses can be problematic due to limited recovery of soils from each sample interval and the need for separate samples from a given interval for both laboratory analyses and headspace screening. In addition, the quality of the data generated from headspace analyses is largely

dependent upon the ambient temperature at the time of sample collection and the temperature of the room/area where the samples are stored prior to screening. And, because field screening of split-spoon samples typically generate data that are similar to headspace screening the performance of both evaluations is redundant. Based on this discussion, the EPA concurred that headspace screening was not necessary.

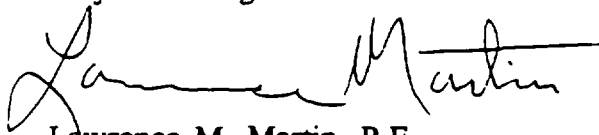
On November 12, 1992, the EPA requested that the proposed locations for the cyanide pot test pits, TP-8 and TP-9, be modified. The enclosed Field Change Request Form reflects this modification and the justification for the final field procedures. Please sign each of the three enclosed copies and forward them to Mr. Tom DeFouw for his signature; one signed copy will then distributed to each of the signing parties.

In addition to the clarification/changes discussed above, Remcor requested several minor field changes from your on-site representative. It is our understanding that you gave verbal approval for these changes to your on-site representative. Documentation of these changes will be forwarded to your office following the return of Remcor field personnel from the site.

Very truly yours,



Martha E. Fleming, C.P.G.
Project Geologist



Lawrence M. Martin, P.E.
Project Manager

MEF:LMM:chf:10833
Enclosures

Rockwell International Corporation
Allegan, Michigan Site

PART I - INITIATION

Modification Requested:

EPA requested that the locations of the cyanide test pits, TP-8 and TP-9 be moved approximately 60 feet south of the locations shown in Figure 2, Drawing 92192-E5, of the Work Plan Addendum. To accommodate this request, one of the approved test pits (TP-9) was omitted from the Work Plan addendum scope. In addition, EPA stated that it was not necessary to extend the test pit to a depth below 10 feet in attempting to reach the water table (saturated soils). EPA recommended that if there is no evidence of cyanide pots, samples will be collected from 0 to 0.5 feet and 5 to 7 feet. If cyanide pots are present, samples are to be collected at 0 to 0.5 feet and the most impacted interval based on field screening, or if the screening does not indicate impact the sample is to be collected from immediately adjacent to the pot. The third sample will be collected from two feet lower in the soil column unless the interval is greater than 10 feet below ground surface or in a saturated interval. The new test pit location is shown in revised Figure 2, Drawing 92192-E6.

Justification:

EPA believes that if cyanide pots are present it is most likely that they will be relatively close to the loading dock doors at the north end of the former drive-line assembly building, hence the relocation nearer these doors. Due to limited access in the area of the new test pit location and the potential for structural damage/failure of the adjacent buildings, the EPA agreed to the completion one large test pit (TP-8) in lieu of the two approved test pits. In addition, the EPA stated that it would not be necessary to excavate the test pit to the water table if such excavation would required removal of materials below 10 feet; this was in response to the nature of the underlying materials which are believed to be comprised of loose, well-sorted, fine sand.

PART II - REVIEW AND APPROVAL

Comments:

Approval:	<i>L. Matus</i>		<i>4/9/92</i>
Project Manager	Remcor, Inc.	Date	
Project Manager	Rockwell International Corporation	Date	
Remedial Project Manager	U.S. EPA, Region V	Date	



FIELD CHANGE REQUEST (FCR)

FCR No. 001

Part 1

PROJECT ROCKWELL ALLEGAN MT DATE: 11-12-92

LOCATION TP-8

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

CYANIDE ~~PITS~~ ^{PRE} TEST PITS WERE MOVED CLOSER TO BUILDING AND ONE WAS ELIMINATED. CYANIDE TEST PITS WILL EXTEND ONLY TO 10 FEET DEPTH. CYANIDE PITS WILL BE SAMPLED ONLY FOR CN PER WORK PLAN TEXT. TABLE 2 INDICATES ALL PARAMETERS. (TABLE 2 IS IN WORK PLAN APPENDIX.)

REASON FOR CHANGE

EPA REQUESTED PITS BE CLOSER TO BUILDING AND ACCEPTED A SHALLOWER DEPTH DUE TO POSSIBLE INTERFERENCE WITH BUILDING.

[Handwritten Signature]

Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance
[Handwritten Signature] MONR

Date

11/17/92

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)

FCR No. 002

Part 1

PROJECT Rockwell Air Jan MI DATE: 11-12-92

LOCATION N/A

REFERENCE(S)

DESCRIPTION OF CHANGE REQUESTED

WORK PLAN STATES A PHOTOVAL TIP WILL BE USED IN SCREEN SAMPLES. KAREN SIKORA WAIVED THIS REQUIREMENT.

REASON FOR CHANGE

HNO IS ADEQUATE TO SCREEN SAMPLES

Originator's Signature

Part 2

DISPOSITION: [] ACCEPTED [] REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Date

Other

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)
FCR No. 003

Part 1

PROJECT Rockwell ALLEGAN MI DATE: 11-12-92

LOCATION N/A

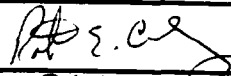
REFERENCE(S)

DESCRIPTION OF CHANGE REQUESTED

WORK PLAN INDICATES HEADSPACE SAMPLES WILL BE USED TO SCREEN SAMPLING LOCATIONS. SCREENING WILL BE DONE ON SPLIT SPOONS AND IN THE TRACK HOE BUCKET AS SAMPLES ARE EXPOSED.

REASON FOR CHANGE

SCREENING SAMPLED IS ADEQUATE



Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Karen E. Roberts SEC Donohue/USEPA

Date

11/16/92

Other

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)
FCR No. 004

Part 1

PROJECT Rockwell ALEGAN MI DATE: 11-12-92

LOCATION BORING AND WELL RE-COLLECTION LOCATIONS.

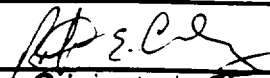
REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

HOLE PLUG (BENTONITE) WILL BE USED TO BACKFILL BORING LOCATIONS INSTEAD OF A BENTONITE - GROUT SLURRY.

REASON FOR CHANGE

HOLE PLUG IS AS EFFECTIVE AS THE SLURRY.



Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance
Marek C. Roberts SEC Director/USEPA

Date

11/16/92

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)

FCR No. 005

Part 1

PROJECT Rockwell ALLEGAN MI DATE: 11-13-92

LOCATION TP-5

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

SECOND SAMPLE INTERVAL WAS AT 12 FEET DEEP
INSTEAD OF ~~8-10~~ 8-10. NO IMPACTED SOILS WERE ENCOUNTERED.

REASON FOR CHANGE

EPA REPRESENTATIVE (KAREN ROBERTS) AND MDR (MARY GIETKA)
REQUEST. Requested change because encountered a clayey sand
layer @ 12' and decided any impacted soils would be retained at
this level if any are present.

[Signature]

Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Karen E. Roberts SECT/Douglas/WSEPA

Date

10/16/92

Other

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION: _____

FIELD CHANGE REQUEST (FCR)
FCR No. 006

Part 1

PROJECT Rockwell ALEGAN MI DATE: 11-13-92

LOCATION mw-6 mw-3

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

SAMPLED MW-6 AND MW-3 PER MARTHA
FLEMING'S INSTRUCTIONS.

REASON FOR CHANGE

WELLS HAD TO BE SAMPLED FOR TAL METALS BEFORE
A DECISION WILL BE MADE ON MW-12.

Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Date

Other

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION: _____

FIELD CHANGE REQUEST (FCR)

FCR No. 007

Part 1

PROJECT ROCKWELL ALLEGAN ME DATE: 11-15-92

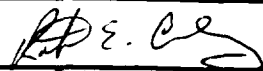
LOCATION P-21.

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

P-21 WAS INSTALLED AS A 2" MONITORING WELL PER MARTHA FLEMING'S INSTRUCTIONS

REASON FOR CHANGE



Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Date

Other

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)

FCR No. 008

Part 1

PROJECT ROCKWELL ALLEGAN MI. DATE: 11-13-92

LOCATION MW-13

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

SAMPLE NUMBER RAM-MW-13-003 WAS COLLECTED BELOW
THE SATURATED ZONE.

REASON FOR CHANGE

HNu reading of approximately 17ppm was encountered in split spoon
from 15-17 feet. Sample will be analyzed because noted as
an affected sample.

Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering Date

Environmental Compliance Date
Karen E. Roberts / SEC Donohue USEPA 11/17/92
Other Date

DISPOSITIONED BY:

Project Manager Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)
FCR No. 009

Part 1

PROJECT ROCKWELL AUEGAN, MI DATE: 11-13-92

LOCATION MW-16

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

SAMPLE RAM-MW-16-053 WAS COLLECTED BELOW
THE SATURATED ZONE.

REASON FOR CHANGE

The water table was at 4.5 ft. Evidence of impacted
soils was noted at 5 ft. A saturated sample was
necessary to get 3 samples + cover the suspected
impacted area.

R. E. O'G

Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Mary B. Metter MDNR

Date

11/17/92

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION: _____

FIELD CHANGE REQUEST (FCR)

FCR No. 010

Part 1

PROJECT ROCKWELL ALEGAN MI DATE: 11.17.92

LOCATION MW-15

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

SAMPLES RAW-15-002 AND 003 WERE BOTH
COLLECTED BELOW THE SATURATED ZONE 2-5' - 2-4' AND 4-6
4-6 RESPECTIVELY

REASON FOR CHANGE

Water table at 2' + saturated 2-4' did
not yield enough sample so 5' portion of
next spoon was collected

RPE. CRY

Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Mary D. Gentes MONR

Date

11/17/92

Other

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)

FCR No. 011

Part 1

PROJECT Rochewey Auegan ME DATE: 11-17-92

LOCATION P-19

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

SAMPLE NUMBERS RAM-019-002 AND 003
WERE TAKEN FROM 2-4' BGS AND 4-6'
BGS RESPECTIVELY

REASON FOR CHANGE

Ratcliff

Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Mary B. ... MDNR

Date

11/17/92

Date

DISPOSITIONED BY:

Project Manager

Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)

FCR No. 012

Part 1

PROJECT

ROCKWELL ALLEGAN MI

DATE:

2/17/93
~~11/17/92~~ ^{KRP}

LOCATION

~~N/A~~ ^{KRP} DEEP WELLS (MW-3, MW-6, MW-9)

REFERENCE(S)

DESCRIPTION OF CHANGE REQUESTED

— WORK PLAN DOES NOT STATE DECONTAMINATION PROCEDURE FOR PUMP/HOSE ∴ IT WILL BE 5 gallons of EACH IN THE ORDER PRESENTED, ALCONOX WASH, POTABLE RINSE, DISTILLED RINSE PER 100' OF HOSE
— SAMPLES WILL BE COLLECTED FROM HOSE/PUMP

REASON FOR CHANGE

NOT DEFINED IN WORK PLAN OR QAPP



Originator's Signature

Part 2

DISPOSITION:

ACCEPTED

REJECTED

REVIEWED BY:

Environmental Science and Engineering

Date

Environmental Compliance

Date

Mary B. [Signature]
Other

2/17/93

Date

DISPOSITIONED BY:

[Signature]
Project Manager

2-17-93

Date

DISTRIBUTION:

FIELD CHANGE REQUEST (FCR)
 FCR No. 013

Part 1

PROJECT ROCKWELL ALLEGAN MFC DATE: 2/18/92
~~11/17/92 KPP~~

LOCATION MW-10, PZ-17, RW-3

REFERENCE(S) _____

DESCRIPTION OF CHANGE REQUESTED

DUE TO TURBIDITY MEASUREMENTS NOT MEETING THE REQUIRED
 50 or less nephelometric units as described in the Supplement
 to Work Plan Addendum for LNAPL Sampling gw samples will still
 be collected but due to the absorption of metals to silt particles
 total metal concentration may not necessary be representative
 of dissolved metal concentrations. Total and dissolved ~~metal~~ samples will
 REASON FOR CHANGE be collected at the above referenced monitoring points
 turbidity reading consistently higher than 50 nephelometric
 units


 Originator's Signature

Part 2

DISPOSITION: ACCEPTED REJECTED

REVIEWED BY:

Environmental Science and Engineering

 Date

Environmental Compliance

 Date

Mary B. North
 Other

2-18-92
 Date

DISPOSITIONED BY:

Henry S. [Signature]
 Project Manager

2-18-93
 Date

DISTRIBUTION: _____



WATER SAMPLE COLLECTION LOG

PROJECT NAME: Rockwell - ALLEGAN PROJECT NO. 92192

SAMPLE NO. RAM-MW13-0493 SAMPLE TYPE AQUEOUS

SAMPLING TEAM ELR DATE 4-22-93 TIME 1220

SAMPLE DESCRIPTION GROUND WATER Sample From MW-13

SAMPLE CONTAINER 1 L PLASTIC LID _____

SAMPLING PREPARATION NaOH SAMPLE FIXED WITH _____

LOCATION OF SAMPLE MW-13

ANALYSIS TO BE RUN CYANIDE

REMARKS PERTAINING TO SAMPLE TURBIDITY > 200 NTU

LABORATORY & ANALYSIS	C / C #	DATE SUBMITTED
COMPUCHEM CYANIDE	4695 / 2223	4-22-93

RESULTS: _____ DATE RECEIVED: _____



WATER SAMPLE COLLECTION LOG

PROJECT NAME: Rockwell - ALLEGAN PROJECT NO. 92192
 SAMPLE NO. RAM - MW013 - 0693 SAMPLE TYPE AQUEOUS
 SAMPLING TEAM GER MEF DATE 6-15-93 TIME 1040
 SAMPLE DESCRIPTION GROUND WATER SAMPLE MW-13
 SAMPLE CONTAINER 12 AMBER GLASS LID _____
 SAMPLING PREPARATION NaOH SAMPLE FIXED WITH _____
 LOCATION OF SAMPLE MW-13

ANALYSIS TO BE RUN CYANIDE (FILTERED AND NON-FILTERED)

REMARKS PERTAINING TO SAMPLE SAMPLE COLLECTED WITH GEOPUMP
TO REDUCE TURBIDITY. ONE SAMPLE FILTERED AND ONE
SAMPLE NOT FILTERED.

LABORATORY & ANALYSIS		C / C #	DATE SUBMITTED
COMPUchem	CYANIDE TOTAL	<u>4768 / 2344</u>	<u>6-15-93</u>
	CYANIDE DISSOLVED	_____	_____

RESULTS: _____ DATE RECEIVED: _____