SKILCRAFT

US EPA RECORDS CENTER REGION 5
474080

Portage Creek/
Kalamazoo

50 SHEETS
SPIRAL BOUND
NARROW RULED

MEMORANDUM BOOK

- Spiral Bound
- 50 Sheets
- Narrow Ruled

Manufactured by
Arkansas Lighthouse
for the Blind
Little Rock, AR 72219

0 71503 76000 5

AbilityOne ★

Product contains
recycled materials

7530002866952

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Created with pride by Americans who are Blind™

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Mike Gilliken - Grand Elk RR
616 291-3489

Otsego City Dam Impoundment 2-24-10

Dave	Jim Sarie - phone	Sue Prout
Mike Davis	Tom Crossetto	Sam Chamner
Mike Erickson	Leslie	Sam B.
Garry G.	Becky	Charlie G.
Steve G.	Dave Cowgill	
	Mark Tuckman	

Non-Time Critical
Time Critical
Legacy Act Funding
Betterment vs. Superfund requirements

Need Separate decision document for SF + legacy
Order and Separate project agreement w/ legacy

Legacy - habitat restoration + dam removal
4-8 week review/approval timeframe once SF order is in place.

Oversight - work out w/ GLNPO, no required method under the legacy funding.

~~Legacy~~ Project Agreements need consultation w/ Office of Water prior to approval. (Not a lengthy process)

Share other project agreements w/ GP - i.e. Tannery Bay

Length 1.7 miles
Main channel shoreline 3.4 miles
Total shoreline 15.6 miles
avg. depth 2.5 ft.

Dam in or Dam out scenario
leaning towards fewer breaks when completed, if desired.

Discuss prior material w/ GLNPO
yardstick - restoration of beneficial use

2-24-10

GLNPO - desires community involvement in selecting approach to utilize.

PDI - Dam In 30% 8.4M, includes sediment hot spot not 40' reach at
Dam Out 70% 19.6M project cost.
would have to discuss
GLNPO - can't have betterment as majority

GLNPO - Sediment remediation is primary concern
former sediments possible but if contaminated w/ PCB's GLNPO can't fund.

Removing the dam increases the need to consider betterment amount (impact to banks)
Need to have sediment remediation to drive habitat restoration

2012 Construction lands a Non-Time Critical
2011 Construction " " Time Critical

2-25-10

Groundwater Monitoring Call 1300

Paul - MW sampling - state of flux negotiated 2 yrs
Mike E. - resident now w/ 1 yr of data, negotiations were done w/o data, look @ data today + re-evaluate

Conf. call for opening discussion, not decision on stopping sampling
Future calls necessary to discuss technical issues.

3-22-10

Final settlement + trust agreement - draft
signatures by 25th
lodge w/ court late this week
Confirmation Hearing April 19th approve plan/settlement
public comment before 19th

Send out post card after lodged
2 week notice
DOJ - request to participate @ public meeting

3-24-10

Lessons Learned Workshop planning w/ Trustees

- Different concepts of Stable channel
- erosion concerns
- Need people @ mtg who can discuss the concept of what a stable channel would be.

referenced usages
Dont want to rush into next project, need more time to evaluate methods

Fish monitoring
prism
stable channel
Confirmation sampling

15th April
GP - GLNPO
Meeting

Kickoff Meeting - Construction
5/7/10 0800 - 1100 Comfort Inn

Public Mtg 5/6 6:30pm Radisson

Demobe complete October 8th

8,100 est. to be removed (5,700 bank)

length of road (access)
linear cleared

Oxbow - (2400 yds sediment)

TDD - $63K remaining 5/4/10

5/6/10

2a.) For stable channel how much more PCB floodplain soil needs to be removed?
b.) free flowing (dam out) is goal
c.) determine depth - neat lines designed - field implementation held fast
d.) Mid-stream prism - consider all options instead of 40' reach out if prism is has more contamination.
leaving prism changes flow dynamics until prism erodes
e.) Bank armoring
f.) monitoring of down cutting at channel

5/16/10 Lessons Learned 1400

Utilities - companies don't identify distance to stay away or exact location of utility, will need to develop exclusion zones around utilities
geophysical work to identify crossing - who certifies the ~~wod~~ work from a liability concern.

Lisa - Mussel bed relocation as part of planning process for future work. Might want it consider as response cost for USFWS
Bed stability is very important to survivability

Stable channel design - Stable assessment - need similar river reaches to compare adequately

Restoration - pre-plan w/ local supply chain for correct size of vegetation stock.

Neat line - use more data or geomorphic clues to better determine/evaluate neat line

Prism - 40ft reach - forms channel - new flow dynamics ~~way~~ to prevent? armor? less dredge depth, need to watch closely until prism erodes.
grade control (keep it in place) if it would be a benefit.

Sediment Confirmation Sampling w/o hard bottom -
do we need post dredge vs end of year
mid channel data - use what we had
Project objective - not designed on post dredge but neat line and post season sampling.
near shore to off shore approach
mid channel confirmation - what was instream confirmation concentrations left after dredging

5/6/10

Water Monitoring - Transport long term vs. short term construction, modification to work based on turbidity not sample analysis.

Underwater excavation techniques - open vs. closed bucket changes in future

ER procedures - review height of WCS, no need to build it higher than needed let it over top get equip + personnel out of the way + monitoring.

Monitoring of Banks - detailed worked out after removal completion - tighten up on details earlier. Lesson learned already, implementing currently

Long term monitoring - long term fish monitoring not included on purpose, included in MI LTM process. If MI stops fish monitoring (see RI AOC) GP would then put program in place.

Property Boundaries - having a clear definition of property boundaries would be helpful.
Outreach to public prior to next project

Restoration Plan - released @ same time as Proposed Plan

Combination 0475

5-7-10 Construction Kick-off Mtg PD2

H&S. - job hazard analysis - operations

Gas utility new Staging Area 1 along Douglas Ave.

Excavation Start 6-7-10

SA1 - wet processing w/ pug mill, transport water to SA1 from SA2

McMurtrey - Horse Track - trainer thoroughbreds may have to relocate to train elsewhere if so - compensation required. Quiet around homes

Simon - active in oversight - direct inquiries to Rich Hansen or E.J.

Oxbow - site visit to view conditions - debris + trees

Carry G. - contact Eric Wilson @ City to update

Restoration - walk North of River w/ Paul + John once JF New is completed

Sample Grid layouts - Eric to provide for review

Stakeholders Mtgs - Every 3rd Wednesday of the Month

LEA Lambert Elliot + Associates - GP Public Affairs rep.

Access to Steele Property - notify Eric

5-18-10
Floating Bridge installation near complete - all pontoons on water
dressing up SA 2 + 3 for liner placement on 5/19
Job Trailer + parking area preparations near complete

Jason Elgin 734 740 9010

SR - 1.5 removal Plan - 1.0' cut P2BN-23

Backfill w/o coir log or armor
Lisa.williams@fws.gov
Cocks.todd@mintra.epa.gov
Bucholtzp@michigan.gov
hanshues@michigan.gov

weekly / monthly reports for polep

7-14-10
Working north side of Island 2 removing road.
ES working to find more efficient method of removal over log road.
- scrap + stockpile longer segments instead of one truck @ a time
- operator pushing stockpile back into excavated area so topsoil can truck can drive over + dump on cleared area
- seems to be inefficient will try different approach on 7/15

7-20-10
Paul Simons stopped by the site.
He brought up 3 issues
1.) Bank upstream of bridge - wants it rip rapped
2.) Flood plain logs removed
3.) Leave as much as roadway as possible.
Informed Mr. Simons that I would raise these issues w/ MDNRE and get their input.

planned obligation in CERCLIS

7-21-10

Stakeholders Mtg.

pontoon bridge - configuration, water depth, depth check every day.

5000 Tons to landfill to date
40-45% Total back removal for the year

1,500 Tons river run rock on-site
4,000 Tons Topsoil on site
173,000 Gallons water treated

Allegan County Safety Director - traffic flow @ entrance/exit - added barrels, blinking lights
use turn signals well before turn.

MIOSHA - voluntary audit
reviewed procedure for cleaning tailgates on trucks

Algal Bloom - sampled + came back okay
recommend sampling in August or periodically

Six Grids required resampling

Access Road - John Lerg - wetland flow or impairment is also an issue w/ leaving roadways
roads for timber mgt require lesser requirements

commercial is defined as little as $1 of timber sales
Sharon will ask mgt ck a permitive approach
identify jurisdictional approach.

7-22-10

Area 4B (South side of river) approx 70' to 180' upstream of 5B is a yellow ~~as~~ sand layer that will underly the backfill. The sand layer is mostly @ water line. Area to watch for erosion of restored bank. This stretch <u>will</u> <u>not</u> receive stone armor as part of restoration.

5:30pm Paul Sirion visit to CP.

Wanted to know what discussions were held regarding his concerns during the stakeholder mtg.
Informed him that John Lerg will be talking to him about the road & wetland
- Paul re-iterated the desire to move the trees piled up on-site, told him we would not leave trees piled on his property
- He asked again to rock the banks between 3B + 4B told him if we didn't disturb it we won't rock it.
- Wanted the area along the ~~river~~ river back filled to original height, ~~said~~ I informed him we keep it lower for enhanced exchange of bank + river for wildlife improvement
- He also wanted the culvert left in place at the oxbow outlet when we are done

8-2-10

Benzene releasing PCBs does it happen
what happens after release in water environment

post to website

Bill Wykhuis -

bill.ezmail@yahoo

Bob Whitcomb -

email - Chris Mike & Jay for coverage

Steve Hamilton office 269 671-2231
www.kbs.msu.edu/faculty/hamilton/

Plainwell Dam 8-2-10

Crews working area 4B grid 4 re-dig, failed first confirmation sample

Arcadis - re-sample 4B grid 4 8-3-10
placing rock along the bank of 4B - restoration
moving curtain from 3B to 5B
attempting to de-water first cell of ox bow - test effectiveness

4B grid 4 sample # TS20402
sample collection time 9:02 am

11-2-10

11-3-10 Mtg slides
summary of accomplishments
photo narrative of activities
series of photos showing before during + after views

Landfills used - C+C Landfill - Marshall MI.
Ottawa County Farms Landfill Coopersville
TSCA - EQ Wayne County Landfill
Daily water column monitoring upstream + downstream
Weekly water column PCB monitoring up + downstream
Fish tissue PCB monitoring

Grid sampling size - oxbow mouth 50×50 six ~~sa~~ location composite 25×17
Soil samples - 75×30 6 cells composite 25×15

? Post removal site control plan outline - submit in early 2010.

Portage Creek

Portage Creek

11-8-10

Jim S.
Becky F.
Wendy C.
Lerita N.
Mike R.
Sam B.

Millennium Holdings - Bankrupt
2 mile segment of creek
ROD date - est. 2012
Goal - be in river every year
2 special accounts 4M + 49.5 M
Use 49.5 + GLNPO funding to leverage G.P.
4 segments to Judge?
State funding?
State cleanup goal 0.33 ppm
Removal funding available?
Allied Rod - summer 2011
City cooperation? if remedy is unacceptable to them
10 ppm - cleanup objective

Paul - office 517 373 - 8174
cell - 517 214 - 6777

11-29-10

Diane Schmitt
Steve Safer
Mark Brown
Gary Griffith
Nicole Wood
Rick Karl
Wendy Carney

Allison
Becky Frey
Eileen Fury
Michael Davis
Jim Sarie
Leslie Kirby - Miller
Michael Berkoff
Sam Barnes

Plainwell Impoundment - $200/yd
Plainwell Dam 2 - $500/yd

lesson learned Jim - 1.) Prism material left behind, State concern erosion rate, how do we deal w/ left over material
2.) bank erosion, stable channel vs. armoring.

11-29-10

Area 1 SRI/FS - 1% pcb inventory
Hot spots - main stem of river
and Portage Creek.
Scope issues for closure of area 1.
RI - April 1, 2011
FS - fall of 2011

OU1 - FS work, proposed plan in spring 2011
followed by ROD (includes remedy review board)
Aug - Sept - ROD
January 2011 - public mtg for alternative array
Keep GP informed of schedule because of interest by others

Consumers
Mead
NCR
International Paper
} General Notice letters out last Wednesday

Weyerhaeuser - GP may need EPA assistance to get Wey. involved w/ the SRI work downstream of Plainwell.

In kind services - possible match for cleanup $

GLLA -
Susan Prout
Heather
Mark Tuchman

Otsego City Dam - 50/50 split w/ GLLA/SFD/GP
2012 field work

GP work under SFD could be used as the match for GLLA funds.
lots of work needs to be done quickly.
Match needs project agreement in place @ time of spending $ under order.
3 pieces needed.

11-29-10

Need to define SF remedy before going to GLLA for project agreement & necessary approvals
need defined betterment proposal for GLLA for tech review committee

1.) Decision Document (e.g. Action Memo)
2.) Consent Decree or AOC
3.) Project Agreement

Betterment separation from SF - is it cleanup # obj. or a volume objective to separate the two?

Portage Creek - site walk 11-30-10
assumed access
excavate - on shore, solidify → landfill
under bridge - horizontal drill rig w/ bucket - drag out slow process
resuspension - silt curtain
base flow 45 cfs up to 70 cfs
Upper reach - higher gradient
lower " - lower gradient
Bridges - very low clearance

Stability issues around bridges

(SA-1) Confluence - 90' wide - widest point of project.
Bank 8-10' high
water depth - chest deep
park area on east w/ monuments
west side - NW access - possible sheet pile road along west bank
Storm outfall 48" NW side

Utility survey needs to be completed

S of 43 access along ℄, open space
heavily wooded tree line & brush
Overhanging vegetation
foundation: concerns on buildings right on creek

11-30-10

(SA1) little Scotts technique up to RR bridge
if we have access issues

SA2 - S. of RR - access from W - recycler of scrap metal
No work needed
appears to have recycled automobiles possibly
pre-existing contamination on properties for access
water depth - walkable

current removal volumes 50' from RR bridges
current volumes are "neat" and don't cover
same areas of State concern.

(SA3) - N of 1st RR bridge - did Fields over estimate?
" " " " - small shelf downstream east bank
Staging Access is difficult for S. half, N half come in
between railroad tracks from
floodplain sampled between tracks availty data
pump around options?

Small batch processing
process in stream if can de-water
size water treatment system

SA4 - no work needed

(SA5) Dutton St.
narrow channel, steep side walls - submerged
seawall east side, backfill will be needed to
prevent undermining bank, seawall & building
foundation
parking lots e & w sides
Up John Park - east side open
24 hr security & fencing - 6' fence

(SA6) S. of Lake St. City yard - 6' fence - remove & replace
residential home east side
~~A~~ infrastructure repairs - outfalls, bridge aprons (SA5)

11-30-10

SA7 - Reed Ct - creek along street, - work from St or from bend Eglestan St.
may have to access floodplain (opposite)
w/ culverts across creek
sediment thickness ~ 1 ft.
8' of fall between Alcott + Stockbridge
steep segment overall
floodplain work - probably have to remove to bottom of root mat if contaminated - awaiting State data.
No work needed unless floodplain comes back w/ hits.

GPS bank locations for restoration
Utility survey
Engineers to assess buildings along creek to assess impact of removal.
3rd party survey
Place sediment into roll off, mix in super absorbent polymer + ship to landfill
absorbent = 70¢/lb
Document ~~to~~ building foundations from inside (i.e. basements)
Water Treatment?
SRD requirements?

12-2-10 Bank repair conf. call re: Plainwell Impoundment

12A HA required
area along shore - plant shrubs + trees @ minimum
use planting zone 1 mixture

Enbridge - Romeoville
372 204 total gallons recovered
55650 - pipe drain up
316 554 - total spill volume recovered

Soil + Debris 16,662 Tons

Water 6 478 812
7 800 000
14,278,812

~~312 886 6128~~ 1 866 297 3188

312 886 3000

1-20-11

Benton Harbor Mtg.

International Paper - owned property ~~for 10 yrs and lease~~ and leased to Allied Paper for 10 yrs as operators

Goal for river vs. creek - same?
Otsego City pathforward + closing down on Area 1
Consumption advisories aren't the SF measure we use, we use risk range as the measure
natural recovery will probably have to be included in remedy along w/ cleanup methods
Need to find common ground on length of time for recovery
Look @ river holistically
Creek - Surface weighted, mass removal
- Management of public expectations - may take longer to recover than public may think.
- Thin deposit removal - for river - results in same concentration post dredge as pre-dredge.
- Non standard practice eg. modelling, not, needs peer review.
- Risk range .04 - .7 or 1.0 = 10^{-5} risk
  .33 MDL for Lab
- State has single target risk and not a risk range.
- What is the strategy to get to the # we want, may involve a strategy that takes 30 yrs. May not necessarily involve removing everything over 0.33 ppm
- What is the strategy to judge the actions already taken.
- Due Care Obligation Part 201

  MCL 324.20107a

- Cleanup target level is 10 ppm w/ a goal of 1 in excavation areas.

Core depths 2-3-11

		Deepest sample depth	
	SA 1-19	30"	
	SA 1-14	12"	
	SA 3-13	26"	2.5'
	SA 3-11	26"	
	SA 5-19	40"	4.5'
	SA 5-15	51"	
	SA 5-14	34" ?	
Axtell Creek	SA 5-8	16"	1.5-3.0'
	SA 5-5	30"	
	SA 5-4	33"	
	SA 5-3B	19"	
	SA 5-11	40"	4.0'
	SA 5-12	52"	
	SA 7-2	18"	

1-25-11

1417B 1400 - 1-25-11
OIG Audit pre-meeting
Site cost to date $33 M
Linda Haile Becky F. Jim S.
Arlene Finley Leslie K. Nicole

Report pulled from Scorpio
UBO - unbilled oversight cost $6,783,004.17
Allied Paper Bryant Mill pond - some cost not billed - Eileen
Only 2 oversight bills issued to date

Plainwell CD Bankruptcy / Total of 7 CD or AOC
~~Imp~~ Weyerh. CD Hayfell Bankruptcy
~~GP~~ CD Plainwell 2 Plainwell 1
~~GP~~ ~~AOC~~ SRI/FS Bryant Mill Pond.
Bring all CD/AOC's to the OIG mtg.

Docket #s to bill oversight cost
09C925 P2
07C833 P1
07 858 SRI/FS
Weyerhauser CD out + Plainwell mill

Closeout letter for P1 to Arlene

2-16-11

6965.457 yds natural neighbor TSCA volume
9304.08 yds Thressen TSCA volume

23338.623 differential in TSCA volume

Conference Call w/ MDNRE:

Jim Sarver	Sam B.	Drew
Craig Thomas	Paul Bucholtz	Jeff Kaiser
Chuck Roth	John Bradley	
John Berg-Cavan	Todd King	

→ 1.8 miles from Alcott Street to Kzoo confluence

State Review - SA6 near Stockbridge
SA5 North of Lake → SA5-1B
provide information on decision next week

Fields - Chuck - re-draw polygon - new estimate
John Berg-Cavan - cross section of cores - beta sample

1993 Frozen Sediment Cores analyzed 1997

RI Report Vol. 2 Appendix C Table 3 (PPT1 - PPT13

151 Port. Creek samples N of E Olcott St.

0 - 46 inches deep

various increments for sampling cores

year - 1997 analysis

13 results > 10 ppm

2 results > 50 ppm

PPT1 - 4	7 - 4	13 - 1
2 - 3	8 - 3	1
3 - 3	9 - 3	
4 - 3	10 - 3	
5 - 4	11 - 3	
6 - 3	12 - 1	
20	17	

38 locations Sampled

79 ppm sample PPT 1-4 0-12" interval

3-2-11

Compare Field vol. w/ Start details

Provide comments on Start details to Rick M.

Locate Grid map & review

Cost out other method - absorbent crystals?

IP as PRP

900K out of 4 Million Acct.

~~Tom Barquas~~

3-31-11

PCB Remediation Rule - meeting w/

Leslie - Kirby Miles
Sam Barnes
Peter Ramanasukas
Jean Greendy (via phone)

Peter + Jean will review documents and provide an internal memo for the risk based approval method requirement.

START Cost estimate

PM	10 hrs/wk
Supp/admin	10 hrs/wk
Field Start	72 hrs/wk
Field Start	72 hrs/wk

164 hrs
x 44 wks
7216 hrs
x $110/hr - covers expected rate increase, incidentals
~~721~~
793760

Per Diem
20 @ 138/day x 44 wks
$72,864

Rental Car 350/wk x 44 wks
$30,800

equip rental
2 PDRs 120/wk x 44 wk
$10,560

Report Writing 160 hrs x $110 $17,600
Media 4 hrs/wk x 2 x 44 x 110 = $38,720
Spilt Samples 3/wk x 100 ea x 44 wks = $13,200

EPA 2 @ 44 wks 72 hrs/wk x $62/hr

392832

SRI data
State " } review } drivers for removal action
MHLCC bankruptcy

EPA assumed lead in 2007
disagreement among PRP + State as well as EPA
resulted in mediation in 2005 for development
of AOCs. 2007

4-6-11

Rick Mehl call
used quotes from vendors to develop cost estimate.
will provide backup & staging area layouts.

4-7-11

Call w/ David Chung re: Action Memo
for PC. Per Guidance doc. page 29 + 30 since
the site is on the NPL we don't need HQ concurrence
for the Emergency exemption > $6 M. Just need the
2 mill exemption ~~&~~ consistency exemption for RA approval.
see exhibit 7 page 30.

4-12-11

HQ call w/ David Chung + Counsel
1330 866 299 3188
202 564 8942

comments on draft hard copy
remove nationally significant language from concurrence memo - p 44 of guidance

Lee Tiner ORC 2 Million limit
David Chung

HQ Approval - over 6M = HQ
OECA/OSRE + OGC consultation - p 53 of Guidance
Refer to off-site rule P.

4-12-11

AR Index - send docs up
Field Maps - remediation maps/vol. maps pdf.
2010 MDCH Advisory pdf.
Part 201 designation - Search list + Site list
Hard copy pdf. lab data pdf
Electronic data + core logs xl spreadsheet
Email transmittal of data from Andrew Santini. pdf.

Jim Sarie - sediment conference

p 13 + 14 area of Park
overflow of water, happened over time?
need for sampling
will it panic public?

847 612 3970

Tech. Approach - Sam - Lance Moen.
excavation depth - print on map - Craig

0900 PC meeting w/ Rick + Doug. 4-14-11

Action Memo - addressee - HQ
Public Meeting -- no mention of action w/ approval of someone indicating an agreement is in place.

4-25-11
David Chung - Linda + Terry Ebby discussion - unknown outcome, contact Terry or Linda

Leslie - action for RA signature for consultancy exemption

202 564 0927 - Terry Eby

Leslie - 2:30 - UAO 3:9443 5-3-11

GP - contribution litigation against NCR + IP
IP - ownership of Bryant Mills
Champion bought St. Regis, IP bought Champion

divisability argument under Burlington Northern 106 b risk?

6-15-11

1.) PCB remediation rule consultation - Jean Cromely
see email from Peter R. 5-28-11

2.) Soil Erosion Control permit from County for areas of 1 acre or more disturbed

UAO - for 2012? Larry Kyte - will review this year for next season - HQ will support 106 order

6-17-11

NCR / EPA Meeting

Bryan - Engineering - Conoco Phillips - Dupont exp.
GP ~~and~~ NCR - initial stage
~~at~~ Want to understand the site in greater detail.
Formal response in letter
Reviewing records - no evidence found to link NCR to Site according to NCR - Brad
Prefer funding goes to cleanup & not litigation
NCR believes they have a limited role @ site
Propose concept
→ avoidance of litigation - looking for closure
→ cash out similar to Bryant Mill pond

Action Memo Signed 7-5-11

Things to Do: 7-7-11

Requested funding
Notify Contractors
Arrange Site Visit w/ Contractors
Provide site documents to Contractors
Prepare a Contractor Agenda / delivery schedule / list documents
Meet w/ EPA Team
Notify City + State
Meet w/ City - separately?
Conduct public meeting - explain action.
Concurrently work on Access agreements w/ property owners
Community Involvement Plan - update - EJ plan included?
Website - when do we go public - Contact list

7-8-11

ebowman@eqm.com

send contact info.
site docs
Plainwell site docs

Proposed Site layout
Detailed Construction Schedule

7-8-11
EQM funding request 2.2M Special Acct.
1.5M Removal funds
Start funding request $300K Special Acct.

✓ Give GP NCR IP + MDEQ access to website
✓ Action Memo to Don Deblasio + maps
✓ Watershed Council - Jeff Spoelstra
Neighborhood Groups - Don Deblasio

Don - Meeting Room - verify

Construction Quality Control Plan
Erosion / Sediment plan

~ 9-26-11 - 500K two times
500K
1 Million additional
total

7-13-11

Site visit w/ Eric B. + Mike B. Craig + Sam

Tour creek slope areas for removal

Identified Critical Paths + other items

1.) Survey / Bathymetric survey of SA7 + SA6 + SA5
2.) Access agreements to areas / 7 6 + 5
3.) Contact City
4.) Look into establishing CP @ SA5
5.) Meet w/ Cooper

Eric Mtg w/ internal Staff in Cinci 7/15 @ 1300
Jackie Doan QAPP / SAP
John Wenty Water Treatment / SRD
Michael Arosaria - Sediment Erosion Control Plan
Eric Bowman - Work Plan common elements
Tech memos
Traffic Plan

Mark Douglas - Disposal / Trans
Todd Valley - HASP
Dan Tomo - CAD Drawings

Mike Russell - Structural Engineer - 3rd Party

Identify data gap sample locations

Collect Samples from setup areas, conditional access?

7-14-11

Bruce Meacham call - provide tentative dates for meeting the first week of August

FIELDS - 2 laborers for clearing line of sight possible instruments

Eric - Call ~~A~~ County drain Commissioner
city mtg
Hospital property owner
Survey personnel support - 2 labors
possible rental of equipment.

7-27-11

Eric - make charge for 7-26 but not time for crew, due to his error & working on wrong day.
use 2 crew this week and 4 crew next week

Leslie - FA for Plainwell sites

Stockbridge Ave. - City of Kzoo Public Service 06 22 421-002

City of Kzoo Brownfield 06 22 467 001 - Reed Ave

Bronson Properties Corp. 06 22 400 001
405 003
405 004
405 005

405 007

City of Kzoo Up John Park 06 22 402 001

(1) Access Consent Form - voluntary

(2) Administrative Order -

(3) Warrant -

(4) Judical Order (i.e. court order) -

Risk Board Approval - email Jean G. - Sam

List Properties needed for access - Sam

Bill of Lading - Leslie

FA - letter - Blackwell - Leslie

8-2-11

owner Thomas Tom Sokolski 269 352-5402
504 Lake St.
33713 Grace Road
K200 49006

School District

Al Tyler 269 337-0400 - Lake St. Barn (Buses)
~~514~~ Lake St.
508

0900 K200 City Meeting 415 Stockbridge Ave. 8-3-11

Mark Deckam - GLNPO project, have at Public Mtg - Paul B. to follow up

Bronson Properties - Dan Kettenbeil 269 341-7930

Brownfield - seperate entity, not assoc. w/ city access

1st Wed
3rd Thur } meeting dates to review access agreement.

Upjohn Park - boring logs - Mark Polega - Parks + Rec

John Wenty - Eric B. Craig T. Sam B.

Conf. Call # 866 910 4857 8-4-11
pin 535384

Water Treatment Conf. Call

Iron & Manganese - 3 mg/Liter concentration
requires removal to prevent fouling

PCB 2.6×10^{-5} .000026 discharge limit = SRD
0.2 µg/L quantification limit

intermediate - any detection - swap out

effluent - sum total of all Aroclors ≤ 0.2 = QL

Total Phosphourus - monitor & report

Groundwater - Iron / Mn removal? to prevent fouling

- remove plate / frame - use organo clay w/
available bypass if no oil / grease

confirm Fe/Mn ~~oxidation~~ need w/ State

Karen or Rob - ~~for~~ call vendors price equipment

~~708 974 3333~~ ~~708 363 9530~~ ~~Reese~~

Three Rivers $77.00
65619063

8-8-11

Projected miles cleared & cy removed for FY12
plan to remove SA5 in F12
total of 0.71 miles and ~9,326 cy sediment
email to Susan & Linda 8-8-11

Mgt – Jim S. or Sam brief Susan
on PC talking points for meeting
on 17th? or 18th

8-9-11

Call w/ Mike

SA5 – from 9300 / .71 miles
to 7,200 / .60 miles w/ SA5-A

total SA6+7 – 3200 / .50 miles

K200 City Mtg – 8-10-11 1300 hrs

Meeting w/ City @ SA6 – don't use access gates
install entrance on Stockbridge along creek
move fence to end of yellow strip along
east edge of parking lot – not to guard rail
utilize grass area in front of gate along creek
fence between Building C + smaller building – west end
↳ install gate for access to Building C SE door.

Eric – vegetation survey – conduct immediately
structural engineer – acquire immediately

Brunson Properties – leave parking area @ west end
along John St for employees
– use any fencing ~~[illegible]~~ supplies left behind
– will move trailers

Kzoo School District – Transportation Administration, Lynn
1220 Howard St Gary Start 337-0115
Kzoo MI 49008-1871 Terri Aman 337-0122
269 337-0123

8-10-11

Steve Norton - K200 office

Paul - if gdwtr is not contaminated can direct discharge

Impoundment / PD2 Mtg 8-10-11

Bank Monitoring Report:

Imp. - North flood plain - rag weed - replant trees

Sharon H. - minies undercutting or re channelization of river - considered stable, not expecting banks to stay @ as built condition. looking for vegetated banks to be established w/ good root structure.

Paul - DEQ - has collected bathymetry on Imp. - will collect more

Imp. - ① T3N T3S > 85%
② flow behind rip rap
③ G1 (10A)
I2 H2 (4A)

PD2 - < 85% survival of ~~bee~~ woody structure
~~and~~ invasive species - control enough to reach goal of 85% survivability
make sure we put trees back were trees once stood.
if reed canary takes over where it was before no need to fight it.

look @ typical vegetation concern area

1.) Report update - pipeline crosses @ G1
2.) waters edge work on north flood plain indicate tree species ~~taking~~ establishment
3.) I2 H2 - double dig area
4.) Spray [illegible]

8-10-11

Bill Rose - Kalamazoo Nature Center 269 381-1574
SA 3 month

8-11-11

- 24 month

✓ Eric → WNTP rental - call - set up for 2 yr rental
✓ Bowman → Structural Eng & Ecologist for survey of vegetation question of T&M or Lump Sum - do Lump Sum not T&M.

Critical Path item - sampling of construction areas

Facility Mgt Dept 269 337-0400 ~~[illegible]~~

Al Tyler

Kzoo County Pat Crowley - Storm water, Soil Erosion
Drain Commissioner Kzoo County

- Timing of FS w/ PCA impact schedule of FS/ROD
- Upjohn Park concern of PCB deposition
- OU1 - total removal option; favored
- Jeff S. - track all projects w/in watershed, funding
- Dust issue/noise

Jeff Spoelstra Bob Whiteside Leslie-Kirby Miles
Gary Wager Pat Crowley Jim Saric
Bruce Meachant Susan Hedman Sam Barnes

- GLRI funding/committment
- dissolved phase components, other constituents in oil

8-18-11

Access agreement signed from Tom Soloski
Site Tour w/ Trustees
Meeting w/ Consumers Power
" " Clay Corman

Trustee - FWS Indiana bat trees in SA7. Major habitat in SW corner of excavation
Lisa - bat habitat, when will bats leave area? April 1st to October 31st
can we work around trees left standing?
how close can we work around bat trees?
can someone remove bats from tree if they are found in tree?

Consumers Power - Teri, bottom wire comms wire, no longer shield wires - not safe anyway
can't move power line over railroad tracks

Tom Soloski - signed access form, copy & mail back to him.

Clay Corman - before ordering sheet pile do a test drive to see how long of sheets ~~will~~ we will need.

TERRA
DON HOPPER VP Estimation
269 375 9595
dhopper@teracontrdwg.net

cell - 269 491 - 1208 / 8/24/11
Bill Rose - Wed 2:00 parking
Food Dance Restaurant
inside if raining

Conference Call for FSP

Eric Bowman Craig Thomas
Jackie Doan Sam B.

Sample teams - 1 EPA 1 START 2 ERRS
↳ Mobe - next Monday
sample Tuesday
sample SA7, SA6, SA5 + Up John Park, Stogey Acres

Send FSP to Chris L. + Mike B.
HASP

* Call Eric 3:00 on Tuesday w/ trailer dimension
soil pile size etc..
map out retention pond for Eric.

8/26/11

Bob Veenstra 636 681 1372
robert.veenstra1@gmail.com
request sign in sheet from Public Mtg
called him back, names are FOIA exempt can't provide

8/29/11 - Jean Greenaly
Performance Standard / Goal

8/30/11 815 758 5806 home

Hospital
Dan Smith 269 341-7930 Facilities
↳ 207-3204 cell
CSM Group - mgt firm for Hospital

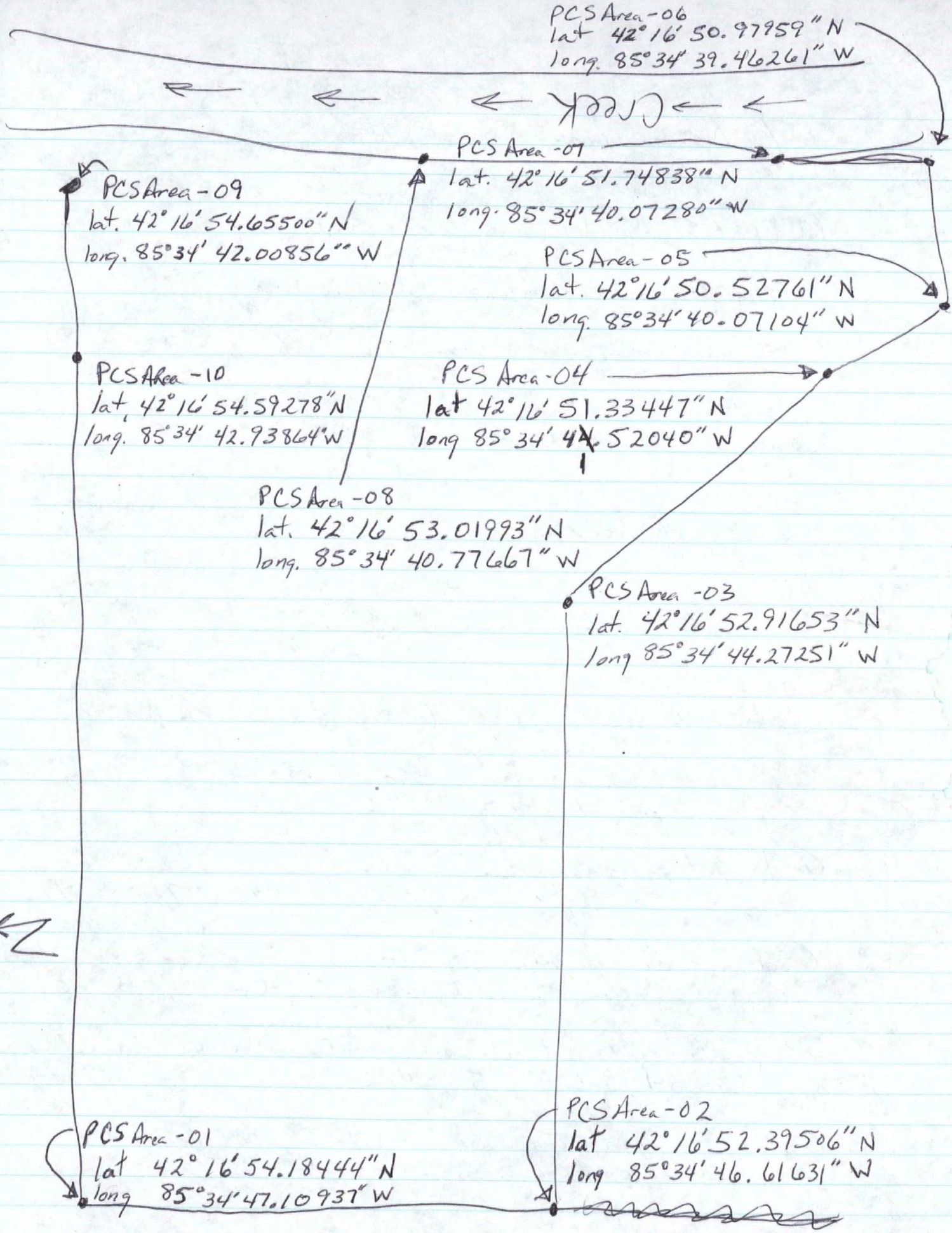
1300 met w/ Mike Gilliken w/ Grand Elk RR re: SA6 @ Stockbridge Ave. Mike indicated the RR has no issue w/ removing 18" from creek as long as we were not on the east bank. If we need a flagman he indicated they are ~ $100/hr. I mentioned SA3 and Grand Elk own the RR property ~~not~~ west of the Nature Center. I indicated I would send an access agreement in the future.

Start offsite @ 1900 to pick up CDS unit.

8/31/11

Measurement of pad area - effective area to build pad 135' x ~~250~~ 230
75' between base of berm & pad

WWTP 45 x 170


PCS Area-06
lat 42° 16' 50.97959" N
long. 85° 34' 39.46261" W
Creek
PCS Area-07
lat. 42° 16' 51.74838" N
long. 85° 34' 40.07280" W
PCS Area-09
lat. 42° 16' 54.65500" N
long. 85° 34' 42.00856" W
PCS Area-05
lat. 42° 16' 50.52761" N
long. 85° 34' 40.07104" W
PCS Area-10
lat. 42° 16' 54.59278" N
long. 85° 34' 42.93864" W
PCS Area-04
lat 42° 16' 51.33447" N
long 85° 34' 44.52040" W
PCS Area-08
lat. 42° 16' 53.01993" N
long. 85° 34' 40.77667" W
PCS Area-03
lat. 42° 16' 52.91653" N
long 85° 34' 44.27251" W
N
PCS Area-01
lat 42° 16' 54.18444" N
long 85° 34' 47.10937" W
PCS Area-02
lat 42° 16' 52.39506" N
long 85° 34' 46.61631" W

File Names from 8-30-11
on GPS unit

PCCORES DataGap Cores SA5 - SA7 8/30/11

PCSAREA Bronson Property Boundary Points 8/31/11

PCBPSP - Bronson Property Soil Piles 8/31/11

Lantinga Grid - drop grids 38, 37, 48, 43, 52
39

Rick Karl 3-9295

9-1-11 Sample surface area of B Property

Storm Drain coordinates west end of stoping area
on Bronson Property
lat. 286880.56 ft. N
long. 12795181.72 ft. E

Grids not sampled due to obstruction or tree cover
15, 8, 9, 18, 27, 45, 46, 47, 48, 49

Grid 7 - sampled pts 7-1, 7-4, 7-5 only
other pts under soil pile (i.e. 7-2, 7-3, 7-6)

Sample pts off-set to new location due to obstruction
5-1, 5-6, 6-5, 24-2, 30-2

Grid 39 had two 39-1 + 39-2 pts changed
one of each to 39-5 + 39-6

9-2-11 Call to Bruce Merchant - access form should be back to EPA shortly. He has been working w/ his attorneys for signature. He did receive the email w/ maps I sent on 8-30-11.

John St Court entrance = short in hydrant, obstacles look @ entrance on Ct. & exit on John

File format - point file excel file or comma delimeneted

9-9-11 Renee Bedrow - Learning Village Daycare

spoke w/ her - concern of Staging Area being next to Day Care
enrollment period now - concern of lost revenue
Poor Neighborhood - what are we doing for outreach
wants us to go door to door to inform public.

John Kneas Attorney
269 337-8404 direct City Attorney - Assistant

Jackie Doan - 9 guide, soil pile, review chlordane data on M/T + see if any other parameters are needed
2 personnel - Tues. sampling may move + demole same day

9-20-11

Crew for Monday mobe in day

Gary B.
Bob B.
Burt ~~R.~~ Cagely
Eric B.
Jeff R.

Meet @ approx. 1200 CST on Friday
Eric Jeff

9-28-11 Mobe to site arrive 1235

all trailers on-site, electrician wiring EQM & EPA trailer. Crew/Break trailer will not be wired to generator. Crew trailer is planned to be wired when permanent power is provided. Ditto for security trailer.

Debris truck arrived & removed last load of debris on pavement.

Trailers being tied down by vendor

Crew clearing brush out of fence line along aptell creek this afternoon.

Electric turned on EQM & EPA trailers, everything appears to be functional.

Track loader arrived @ ~ 2:30

Work hours today for the crew 0730 - 1800

10-3-11

Paul Rueach - emailed Police, Fire + EMA w/ notification of mobilization and invitation to stop by the job site.

Toured SAT w/ Jeff R. + OSCs Rueach + Holy

10-4-11

Crew worked on staging pad all day and operated the chipper.

Sent SECP permit to Frank Spurger via email

Lisa
Hardest
Bronson
Hospital

10-5-11
Eric - upd
Eri ... 11 + 12
Jeff ... may be gone
on ... w/ Fred M.

- Began clear

10-6-11

Website has the following documents posted:

Traffic Control Plan
Field Sampling Plan
Debris Management Plan
Restoration Plan
Soil Erosion and Sedimentation Control Plan
SAT- Tech Memo.

Lisa Hardest Bronson Hospital 269 341-6374
~~Harder~~ cell 269 217-6296

10/7/11 Reed St. - white house to East of Entrance
met Delana, explained activities & time frame
of what we are doing. explained restoration as well.

10-12-11
Tonya Balla SEDD staged - electronic data deliverable
can we get that from Test America
send all deliverables thru automatic check

SEDD
Level II or IV (CLP)
percentage review
Do we ~~ha~~ want a higher review of in stream data
vs. support areas?

10-13-11

call to Lisa Hardest, left voice mail message

Jackie Doan 513 673 4210

ADR - automated Data Review
& Excel

Verification = 100%
Validation = 10% } put into QAPP

Level IV data package
~~Level~~ Stage IV validation } UpJohn, excavation confirmation for Slope Areas

Support Area Sampling Borrow Source Level IV Data Package
10% Stage IIB validation

Debris Mgt Plan } Hard Copy in office
Restoration Plan }

2-1-12

Call w/ Jackie + Lisa

ADR explanation

11-1-11

SA7 Shutdown due to elevated water table from project south of Reed (i.e. CLNPO)
- shut off concrete deliveries to SA7, place todays delivery in support area
- spread grass seed in disturbed areas
- Demobe crawler carrier plus CMC operators
- Demobe (2) or 1 excavators after decon
- Demobe tire wash station
- Demobe porta-johns
- Secure w/ fencing

Axtell Creek -
- begin grubbing + clearing, leave large trees if possible
- remove fence along axtell Creek
- clear + grub bridge approach on west side of
- Downsize EQM crew

~~10~~ 11-2-11

SA6 Tech Memo review w/ Eric

- Need to Include
  FIG 3 - SA6 Infrastructure Features
  road + entrance
  fence line
  truck wash
  support area
  Turn around area

  Fig 4 - SA6 Grids 1-2 layout
  cofferdam
  bypass pumping lines + pumps
  ~~to~~ isolation ~~trt~~ line + pump

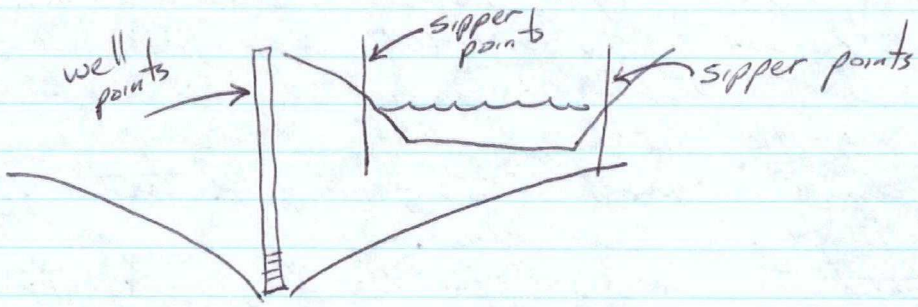
11-2-11

Grids 1-2 18" cut approach
- isolate w/ cofferdams
- treatment dewatering
- excavate into box - decant water
- solidify in box - use absorbent polymer vs cement?

SA6 Grids 3-8 layout
- cofferdams
- Creek Bypass pumps + lines
- Stormwater bypass pumps + lines
- isolation treatment pumps + lines
- groundwater depression pumps + lines / manifold system

SA6 Grids 9-14 layout
- access point
- all items from Grid 3-8 layout

Fig ? - Conceptual view of groundwater depression



* Indicate in SA6 Tech Memo that this approach supercedes all other removal approaches discussed to date.

11-14-11 - Crew placing sand on pad liner
irregular placement of sand thickness, re-working
surface to achieve appropriate thickness.
Crew not using GPS or survey instruments on
any equip to assist in proper placement.
all work being done by estimation.
Bob B. operating loader not allowing Burt in unloader
time to level things off - Resulting in uneven placement
and having to push sand further to achieve
proper grade.

11-15-11 Operator Bowman - runs equipment in 1st gear
driver slow @ high rpm on equipment instead of utilizing
a higher gear. extraordinary time involved to move
pile of sand to pad.

12-8-11
Mtg w/ City of Kalamazoo John ~~[illegible]~~ Seelman ~~who~~
instead of Bruce Merchant.
provided John with an update/status of activities on PC.
provided updated/revised SA5D, SA6 & SA7 maps, as well
as a revised SA Tech Memo incorporating comments
from Bruce Merchant.
Requested any comments from City regarding Restoration Plan
or Soil Erosion & Sedimentation Plan.
John contacted Todd Pryor for the 2 of them to
meet and review vegetation schedule
John also walked us to Frank Springer desk for
any concerns on the SESCP. Frank was out of the office.
John was informed during the meeting that EPA needed
the access form signed before we could move
forward on SA6, SA5D and other areas of the cleanup.
John indicated that there were no ~~so~~ show stopping
activities in the access arrangement.
He was going to brief Bruce Merchant of our
meeting discussions and I am to follow up
w/ Bruce on Monday 12-13-11.
Informed John that we would not be able to put

Meeting w/ John ~~[illegible]~~ Seelman

12-8-11

certain conditions in the access arrangement due to CERCLA betterment issues.
Present @ the meeting was John ~~[illegible]~~ Seelman, Eric Bowman & myself

Eric Kemmer - 12-12-11

Send BRA 646 E Michigan Ave form
put southern access route ~ 30' wide

12-15-11
Francis - Parks + Rec Director

June 18 Aug 19th M-F 8:30 - 3:30

July 3rd Park Event 4,000+ people

rugby - fall activity

→ Debbie ~~[illegible]~~ Jung jungd ~~[illegible]~~@kalamazoo city.org 269 998-7674 cell 269 337-8927 off.

Axtell Creek - minimal backfill protect toe of slope

lift bridge out when excavating around piers

12-22-11 UAO mtg w/ ORC Jim Leslie
Sam Nicole

UAO for 2012 + beyond

IP - owner operator for 2 yrs but no evidence they discharged PCB
no operating records of St. Regis indicating discharge

NCR - sold broke + trim
affidavits from GP truck drivers delivered to Appleton, empty trucks picked up broke + trim

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Bridges of concern
Lake St
E. Crosstown Parkway
Vine St.
Dutton St
Walnut St
E. Michigan Ave

1-6-12

Const. Quality Control Plan - begin preparation - Jackie

Geo Cell - delivered awaiting installation

Surveying - Staging Pad - as built
Axtell creek - bench road (offsets)
SA6
SA5
Axtell Creek

Vegetation - planting for restoration - meet w/ City

MDOT Michigan Ave Bridge - Meet w/ Covey

Winter Mobe date - Jan 17th? check w Paul.

SA6 - Fence Contractor to move fence, install gate
clear + grub

procure bypass pumping + dewatering contractor

Geo tech work - move forward + procure

Waterline pipe - need ~2,000' to start 10"

JAN 17 Survey
Geo Tech
pump test

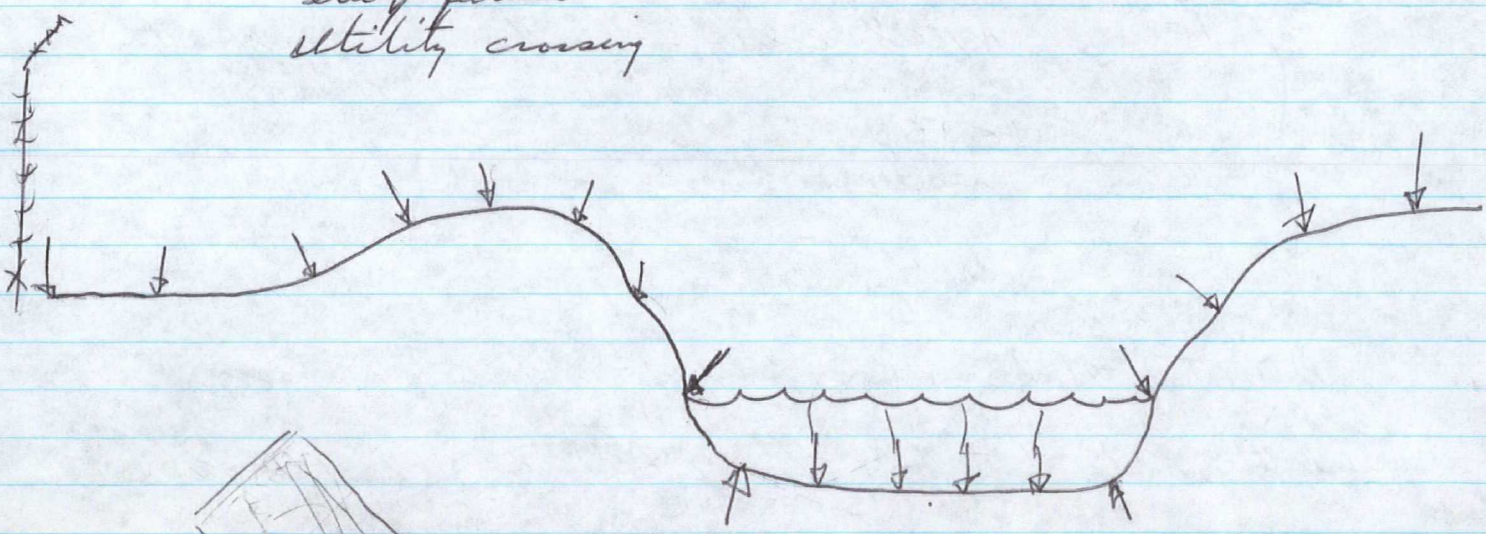
fence procurement
clear + grub

WWTP - electric pumps
2 yr base change to 1
Base yr 4/15/12 - 12/15/12
option yrs 12/16/12 - 12/16/13 etc...
remove 2 vessels (GAC)
" 2 frac tanks
need fork lift/crane for off site GAC change out

Tigg & Carbon Air - re-bid w/ fewer tanks
and new option yes

every 25'.
every feature
utility crossing

grid sample pts for SA7



1-17-12

IP - owned de-inking mill
NCR - less information, letter from Appleton saying they provided broke to Allied Paper
UAO - to IP only at this point.

Bring IP back in, describe plans + work and let them know they will receive an order

Notice for CBI information

Supreme Court Decision re: process

~~12~~ 1-18-12

Mike Colvin - FTCH, MI
Nature Center area 3A
concern/questions re: staging area + road to access

1-18-12 Mobe date for Winter work
@ SA7, clearing + grubbing SA6/SA5

1-20-12 Call w/ Eric
pump test bids due - will have next week Monday
conduct test in ~2 wks
discussed crew members for winter work. prefer personnel who can physically handle the work stress w/o putting personnel @ risk from the manual demands

2-10-12 call w/ Lisa G.
Data Qualifier Summary - should include all data not just qualified data
Who is tabulating all data.

2-17-12
Next Polrep time frame starts 2/6/12 to _____
Meet w/ Debbie Fung @ 10:00 today. Walked SA6 & SA5D reviewed pump test wells + schedule, asked if fence in Park needs to be removed for weekend - she called Mark Polegas + left a message
Crew filled in wheel rusts along lake street completed truck route to bridge ~~pa~~ chipping + clearing.
Chipped last of SA5 D debris, placed discharge fabric in SA6 for pump test, attached fence in Upjohn Park + demobed crew friday afternoon, 3 laborers @ 1200
Adam + Jeff onsite for afternoon.
Requested RM to locate laminated mats (2 ply) for SA7 access road. Weather to warm to freeze soil will prepare to excavate wet soil.

Need printed maps for SA7 SA6 SA5 Axtell Creek - dated 12-7-11 & Cross Sections

2-21-12 - Pump test on-going, schedule for completion on Thursday afternoon 2/23/12 (48 hrs)
Static test completed on 2-20 (16 hrs)
recharge static test on 2/23 - 2/24/12 (16 hrs)

2-23-12 - Pump Test continues. End pump test @ 13:30 hrs today. Begin 16 hrs static test to record recovery of well.
Mobilize skid steer later today for friday morning spread of a wood chips.
Adam Beggs to move tomorrow morning for 1 day.

2-23-12 ~ 1330 hrs

Oversight of SAle pump test noted sewer gas smell of well discharge water. Odor was strongest at end of pipe discharge point.

IMT Exercise

✓ Paul Ruesch	29th
✓ Sonia Vega	28th or 29
Pat Bamford	neither - other regions or actual deployment?
✓ Mick Hans	28
✓ Speizman	28 or 29
✓ Simes	if needed
✓ ~~B~~ Geoff Krieger	28 tentative
✓ Paul Novak	28
✓ Margaret Jones	28
✓ Kevin Turner	28 + 29 Coach ops
✓ Mark Conti	28
✓ Brenda Jones	29

	28th	29th	Mentor
IC	Vega	Simes	Borries
PIO	Hans	Speizman	Gawlinski
SO	Novak		Glover
LNO	Kawecki	Krueger - Donley	Christenson
PSC	Ribordy	Muller	Renninger
OPS	B. Kelly	Benning	Turner
FSC	Hackley / ~~Bamford~~ Krieger	Quigley / ~~Krieger~~ Bamford	Norman
LSC	M. Conti	Hamper - Messenger	Ursic ~~or Oshalla~~
ENVL	M. Jones / ~~Hamblin~~ Drexler	B. Jones / ~~Drexler~~	Hamblin
SITL	Ramach	VanTil	Whelan
RESL	Restanio / Brown	Ruesch	Calovich ~~or Chummer~~
IT/COML	Zanter	~~Munoz~~ Munoz	

127968 Spanish
128758 flat
126581 red