

GUDE LANDFILL REMEDIATION

COMMUNITY MEETING (Meeting No. 4.1)

DATE: September 24, 2009
TIME: 7:30 PM to 9:00 PM
LOCATION: Candlewood Elementary School

ATTENDANCE: See attached sign-in sheet

The Meeting Agenda is included as Attachment 1.
Contact information for attendees is included as Attachment 2.

MINUTES:

- 1) Keith Ligon of Gude Landfill Concerned Citizens (GLCC) opened the meeting by stating the purpose of the meeting and advising those present that the allotted time would be from 7:30 to 9:00 pm. Keith asked that attendees hold their questions until after the presentation. He then introduced the three Community Association Presidents, the GLCC members present, and County and EA Engineering personnel.
- 2) Keith recounted the 1983 M-NCPPC plan for reuse of Gude Landfill, which has not been realized, largely due to the constant settlement of the landfill.
- 3) Keith reviewed recent activities and issues concerning the landfill and explained the genesis of GLCC. He stated that the bus depot initiative had been stopped, the yard trim facility project had been put on hold, the landfill gas-to-energy project had been completed and was operational, and the men's shelter expansion had been completed. Keith also described the positive working relationship between GLCC and DEP.
- 4) Dean Dozier of GLCC then provided background on the structure of regulations that govern municipal solid waste landfills, explained the potential environmental impacts associated with closed landfills, presented historical information about groundwater contamination at the site, and presented a preliminary schedule of activities related to assessment and remediation of the landfill site.
- 5) Steve Lezinski of DEP then reviewed current operations at the landfill, including maintenance of vegetative cover, management of storm water, control of leachate seeps, and collection and control of landfill gas.
- 6) David Lake of DEP presented information about the groundwater and surface water monitoring program at the landfill. He showed the sampling locations and discussed some of the statistics since sampling began in 1984.

- 7) Barb Roeper of EA Engineering presented a discussion about aspects of closed landfills that can have risks for people and ecosystems. She discussed the conceptual site model – a graphic representation of subsurface information; explained risk pathways and stated that only complete pathways, from the environment to the receptor, pose a potential risk; described how risks are evaluated; and how decisions on site remediation are evaluated and made.
- 8) Bob Day of GLCC presented ideas about how the site could be reused after it is remediated. He explained that the more complex the reuse scenario, the more complex, expensive, and lengthy the remediation cycle will be. Some of the low impact options discussed included hiking and biking trails, and archery ranges.
- 9) Keith Ligon then closed the presentation, thanked the attendees for coming, and opened the floor for questions and comments.
- 10) One citizen asked about the relationship between the work at the Gude Landfill and neighboring Inter-County Connector (ICC) activities, including the construction of a storm water pond northwest of the landfill. GLCC and the County were unaware of any connection to the Remediation project. GLCC committed to investigate the issue further and report back to the Community.
- 11) A citizen commented that the promises made by the (Derwood Station) residential developer about the landfill being converted into a park adjoining the community had never been realized, and that he was angry with the County Government for allowing that to happen.
- 12) Several citizens asked about the risk to people and pets from incidental contact with the landfill or surface waters for which the Maximum Contaminant Level (MCL) had been exceeded. The County and EA reiterated that the MCLs are drinking water standards and that volatile organic compounds (VOCs) tend not to be present in surface water since they generally evaporate. EA also pointed out that personnel working on the landfill as part of the project routinely monitor for hazardous VOCs. Even when excavating, VOCs are not detected at a level that requires the workers to wear specific personal protective equipment.
- 13) The power point presentation is included as Attachment 3.

The above summation is the writer's interpretation of the items discussed at the meeting. Comments involving differences in understanding of any of the meeting items will be received for a period of thirty (30) days from the date of these meeting minutes. Clarifications will be made, as deemed necessary. If no comments are received within the specified time period, the minutes will remain as written.

ATTACHMENT 1



Gude Landfill Remediation
Gude Landfill Concerned Citizens & Derwood Station Community
Meeting No. 4.1

Meeting Agenda

- | | |
|---|------------|
| 1. Welcome (Keith Ligon, GLCC) | 5 minutes |
| 2. Contamination & Remediation (Dean Dozier, GLCC) | 10 minutes |
| 3. Current Landfill Operations (Stephen Lezinski, DEP) | 10 minutes |
| 4. Groundwater & Surface Water Monitoring (David Lake, DEP) | 10 minutes |
| 5. Risk (Barbara Roeper, EA Engineering) | 10 minutes |
| 6. Reuse Possibilities (Bob Day, GLCC) | 10 minutes |
| 7. Closing (Keith Ligon, GLCC) | 5 minutes |
| 8. Your Questions (Community) | 30 minutes |

Gude Landfill Remediation Webpage

<http://www.montgomerycountymd.gov/swstmpl.asp?url=/content/dep/solidwaste/facilities/gude/index.asp>

ATTACHMENT 2



Date	September 24, 2009
Time	7:30 - 9:30 PM
Meeting	Guide Landfill Remediation: GLCC/DEP Community Meeting

Name	Affiliation	Phone	Email	Address
Ralph Archibald	DSHOA 2	301 9484116	RalphArchibald@yahoo.com	7335 Osborn
DAVE PETERSON	DSHOA 1	301 921 6357	knipdhp@hotmail.com	7612 Anamosa Way
KATHY PETERSON				Same
M.J. Markley	DSHOA 3	301 424-5431	mjanemarkley@comcast.net	
Mark Silverman	DSHOA 2	301 948-4979	PMAS@COMCAST.NET	15267 Bona Vista Dr.
Ann McCarthy	DSHOA 2	301-424-0573		7249 Wapello Dr.
John McCarthy	DSHOA 2	301-424-0573	JPMcC@comcast.net	Withe
Annmarie Dean	HOA 3	301-340-1475	Annmarie1@comcast.net	
Sue Karacki	HOA 3	301-424-6544	SKaracki@aol.com	7232 Grinnell Drive
JANIE GRIFFIN	HOA 3	301-340-3222	jjgrife@yahoo.com	2 Manona Ct.
RICK TILLEY	HOA 3	301 915 4912	rick_tilley@comcast.net	com 15461 INDIANOLA DR
Susan Main	Resident	301-294-5389	smain29@aol.com	15504 Moravia Ct.
Keith Brooks	DSHOA 2	301 948-5593	Kbrooks@verizon.net	7338 Ostgoose
Cindy Cunningham	HOA 2	301-424-8424	cennalee@comcast.net	7324 Gold Ring Terr
Kevin Bennett	HOA 3	(301) 424-6636	KJBENNETT506@aol.com	5 GRINNELL CT.

Date	September 24, 2009
Time	7:30 - 9:30 PM
Meeting	Gude Landfill Remediation: GLCC/DEP Community Meeting

Name	Affiliation	Phone	Email	Address
Wendy Abdalla	Resident	301 694-6189	wendyabdalla@gmail.com	7237 Wapello Dr Derwood, MD 20855
Michael Edwards	Resident	301- 338 -9577	mebp@bpwriter.com	7205 Bethesda Ct Rochville, MD 20855
Richard Tiley	Resident	301 251 6106	RTTiley@TimesNews	15861 Indisnoia Drive Derwood, MD 20855
Alex Schwartz	Resident	301-424-0705	alexeschultz@hotmail.com	7213 Bethesda 20855
Martin Bernick	Resident ^{F#3}	301-424-0306	Martin_Bernick@hotmail.com	7304 600 Ring Dr Derwood, MD 20855
Stephen Lazicki	DEP	210-777- 6580 ⁶⁵⁸⁰	Steve.Lazicki@montgomery-countyprincegeek.com	6610 Frederick Road Derwood, MD
Barb Roeper	EA Engineering	410-329-5150	broeper@eaest.com	15 Weston Circle, Sparks, MD 21152
Mark Gubarlots	EA Engineering	410-771-4950	mg2@eaest.com	15 Weston Circle Sparks, MD 21152

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Name	Affiliation	Phone	Email	Address
Steve Schulin		301-762-6714	Steve.C.Mda@P.org	15609 Gold Ring Ct. x
Jody Eccleston		301-762-8908	jody720@AOL.com	7205 Wapello Dr
Michelle Postek		301-948-5515	mtpostek@comcast.net	7260 Trunkway
Mary Fenbers		301 838 9755	Johrli2@Verizon.net	15521 V/15ca
Walt Kuhre		240-477-4263	Nate@chrane82@aol.com	1542 Ind. Dr.
LASZLO HARGANSY	DISH0A2	301-651-7596	LASZLOH@COMCAST.NET	7228 Titonka Way

Date	September 24, 2009
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Name	Affiliation	Phone	Email	Address
Phil Harvey	Resident	301-610-9203	philw.harvey@gmail.com	15055 Indianola Dr.
Janette Dexter	Resident	240-477-4353	jmdexter@hotmail.com	7240 Titonka Way
Peter Karasik	DEP/Solid Waste	240-777-6569	peter.karasik@montgomerycountymd.gov	16101 Frederick Rd. Derwood, MD 20855
John Kumar	EA Envrny	410-329-5111	jkumar@caesb.com	15 Stanton Circle Sparks, MD 21152

ATTACHMENT 3



Citizen's Forum

Gude Landfill

September 24, 2009

Agenda

Ligon

• Welcome	Keith Ligon	5 min
• Contamination & Remediation	Dean Dozier	10 min
• Current Operations	Steve Lezinski	10 min
• Groundwater/Surfacewater	David Lake	10 min
• Risk	Barbara Roeper	10 min
• Reuse possibilities	Bob Day	10 min
• Closing	Keith Ligon	5 min
• Your questions		30 min
		<hr/>
		1 hour 30 min

We will answer every question

Who is Here Tonight

Homeowner's Associations

Dave Peterson, President HOA#1

Laszlo Harsanyi, President HOA #2

Nick Radonic, President HOA #3

Montgomery County

Peter Karasik, Chief of Operations, DEP

Steve Lezinski, Ops Mgr, Gude Landfill, DEP

**David Lake, Mgr, Water & Wastewater Policy
Group, DEP**

Gude Landfill Concerned Citizens (GLCC)

Keith Ligon

Julia Tillery

Bob Day

Dean Dozier

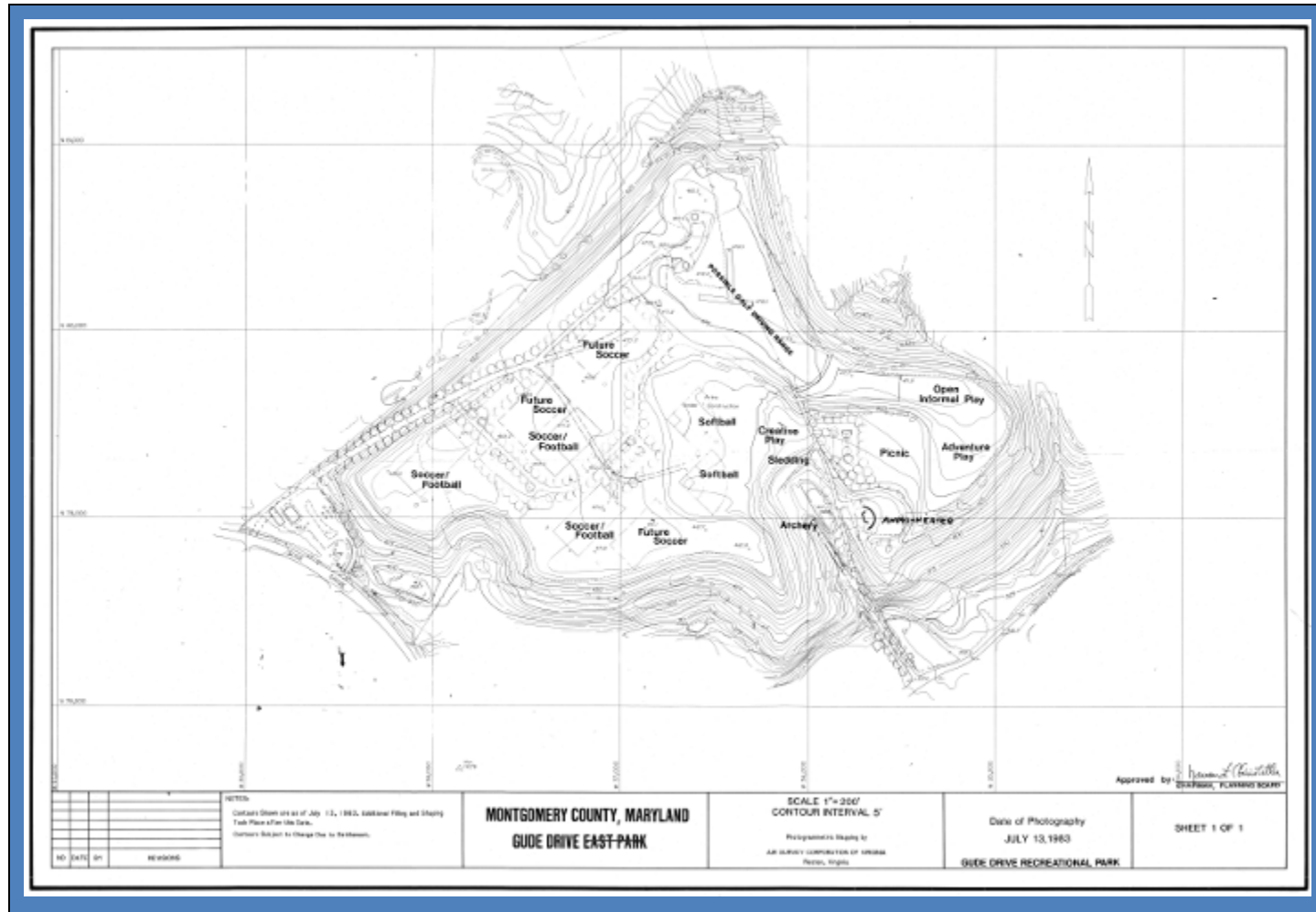
EA Engineering, Science & Technology

John Kumm, P.E.,

Mark Gutberlet, P.E.

Barbara Roeper, P.E.

1983 MNPPC Plan



In 1983 the County was planning a park on the Gude Landfill - athletic fields, picnic areas, golf driving range, amphitheater,...

GLCC Objective

- **County data indicates contaminated groundwater may be moving off site**
- **Our concern is the health and safety of Derwood residents**
- **Gude Landfill (GLF) is a large tract of centrally located land that will continue to attract ideas about its reuse**
- **We oppose any use of the landfill prior to the completion of the remediation**

Our objective is a County funded program that will position the Gude Landfill as a good Derwood neighbor for the foreseeable future

County Use of Gude Landfill

- **MCPS Bus Depot proposed by County Executive** **Stopped**

- **Yard Trim Project proposed by DSW for collecting, grinding wood waste** **On Hold**

- **Gas-to-Energy project proposed by DSW converts landfill gas to electricity** **Complete**

- **Men's Shelter expansion/refurbishment proposed by County Human Services** **Complete**

GLCC/DSW Meetings

- **Joint monthly meetings (2nd Thurs 7pm) between GLCC and the County's Dept of Solid Waste started June 2009**
 - We are aligning our interests and objectives
 - We are seeking a win-win in our efforts
 - The meetings are open, candid, and business like
 - Minutes are posted on the County's GLF website
- **DSW has responded to our request for transparency and data sharing**
 - Modified County website and is posting all GLF data and reports
 - Offered access to engineering firm for questions and discussions
 - Responsive and accessible to our requests

Science will tell us if there are risks to worry about

Contamination & Remediation

Dean Dozier - GLCC

Landfills



Regulatory Framework



Resource Conservation and Recovery Act



**Code of Maryland Regulations
(COMAR Ch 26)
Solid waste regulations**



Montgomery County Code

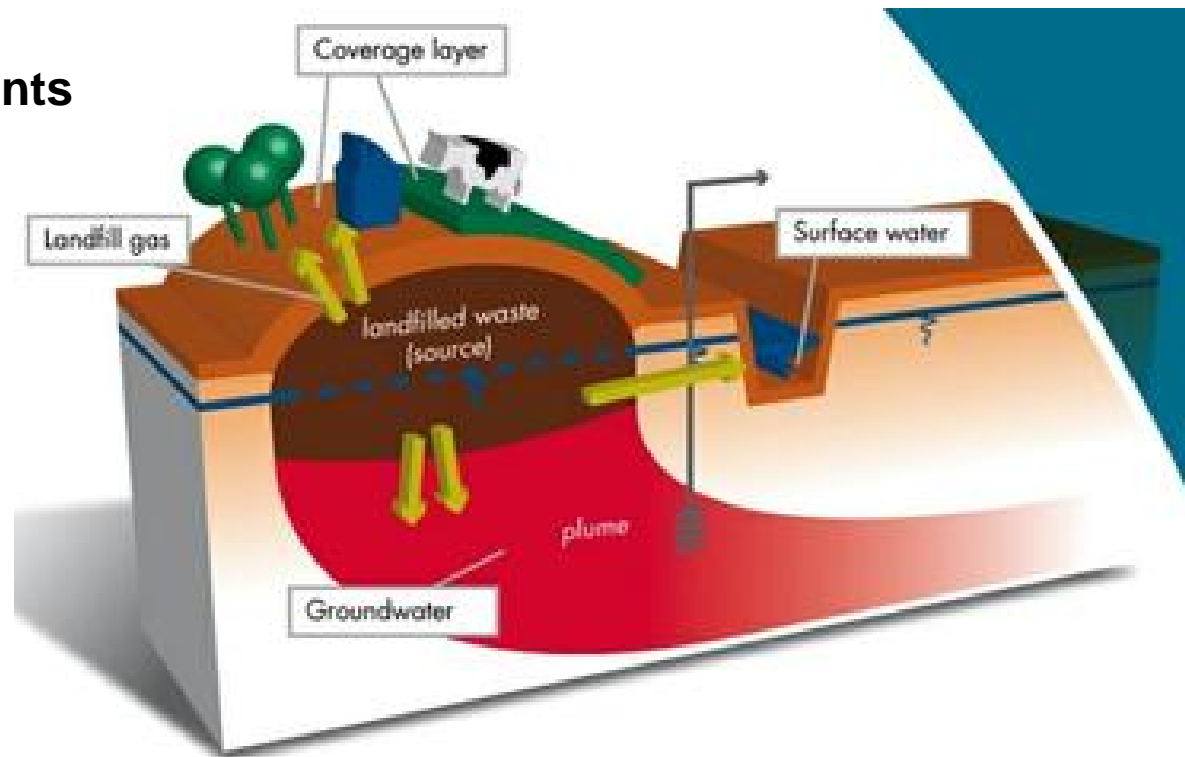
Regulatory Points

Landfill Gas

Landfill Cover

Surface Water

Groundwater



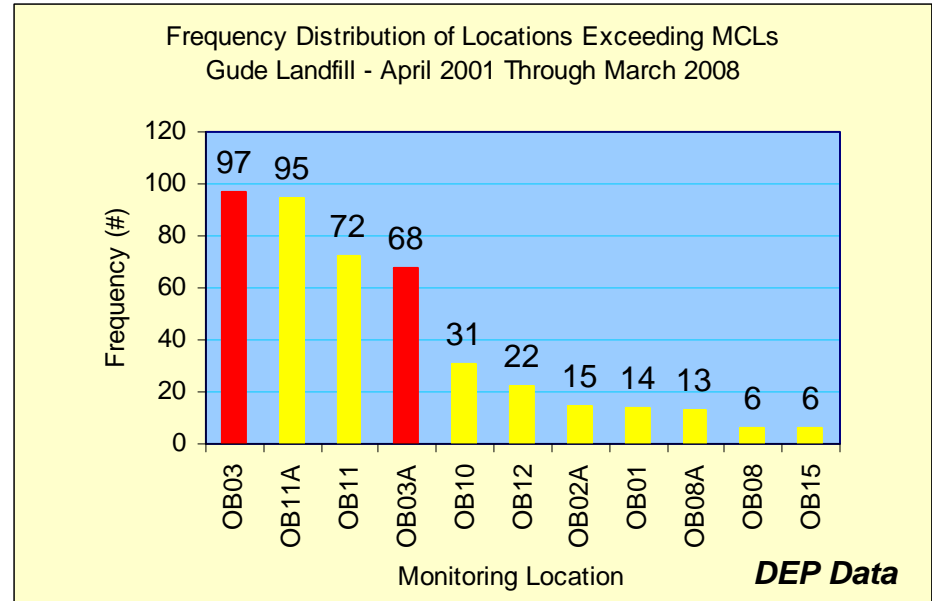
Activities

Digging – determine the extent of waste

Sampling- surface water and existing wells

Piezometer-shallow groundwater well

Groundwater Contamination



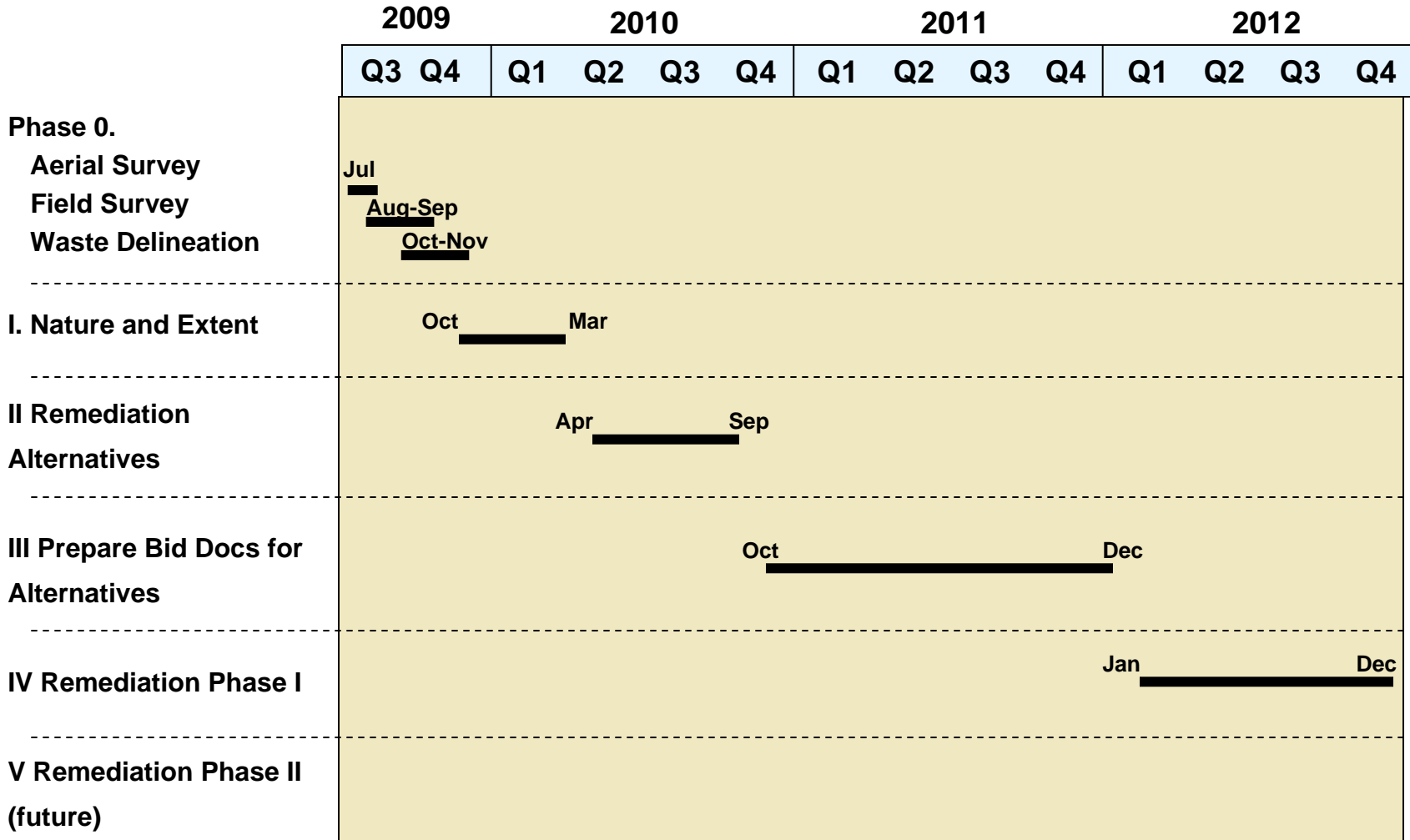
- Well OB-3/3A closest to Derwood houses
- OB-3 had 97 above EPA drinking water limits
- OB-3A had 68 above EPA drinking water limits
- Observed chemicals are contaminants in EPA's Clean Water Act and on Hazardous Waste List

Chemicals Found in Samples

Trichloroethane	Dichloropropane
Dichloroethane	Cyanide
Vinyl Chloride	Mercury
Benzene	Lead
Tetrachloroethene	Chromium
Chlorobenzene	Arsenic
Toluene	

DEP Data

Remediation Approach



Current Operations at the Gude Landfill

Steve Lezinski - DEP

Gude Landfill Aerial View

DEP/Lezinski



Final Cover System – Well Vegetated

DEP/Lezinski



Maintenance - Stormwater Ponding

DEP/Lezinski



Maintenance - Stormwater Ponding

DEP/Lezinski



Maintenance - Leachate Seeps

DEP/Lezinski



Maintenance - Leachate Seep Repairs

DEP/Lezinski



Maintenance – Landfill Gas

DEP/Lezinski



Landfill Gas Collection System

DEP/Lezinski



SCS ENGINEERS 8740 WINDY HILL ROAD WASHINGTON, DC 20007 TEL: (202) 462-1000 FAX: (202) 462-1001 WWW.SCS-ENGINEERS.COM	CLIENT MONTGOMERY COUNTY, MARYLAND DEPARTMENT OF SOLID WASTE AND TRANSPORTATION DIVISION OF SOLID WASTE SERVICES	SHEET NO. 1	NO. OF SHEETS 1	REVISION _____ _____ _____	DATE _____
	DRAWN BY MASTERSITE	DATE 2-8-00	SCALE 1" = 120'	DRAWING NO. 1	PROJECT TITLE LFG SYSTEM ON AERIAL PHOTO GUIDE LANDRELL MONTGOMERY COUNTY, MARYLAND

Maintenance - Landfill Gas Flares

DEP/Lezinski



New Landfill Gas-to-Energy (Operational)

DEP/Lezinski



Ground Water & Surface Water

David Lake – DEP

Water Quality Monitoring Program

- **Montgomery County DEP has operated a water quality monitoring program since 1984**
- **20 groundwater wells routinely monitored**
- **5 Surface water locations routinely monitored**
- **Maximum Contaminant Level (MCL) – EPA Regulatory Standard for Drinking Water Quality**
- **No Drinking Water Wells Adjacent to Gude Landfill**

Gude Landfill and Monitoring Sites

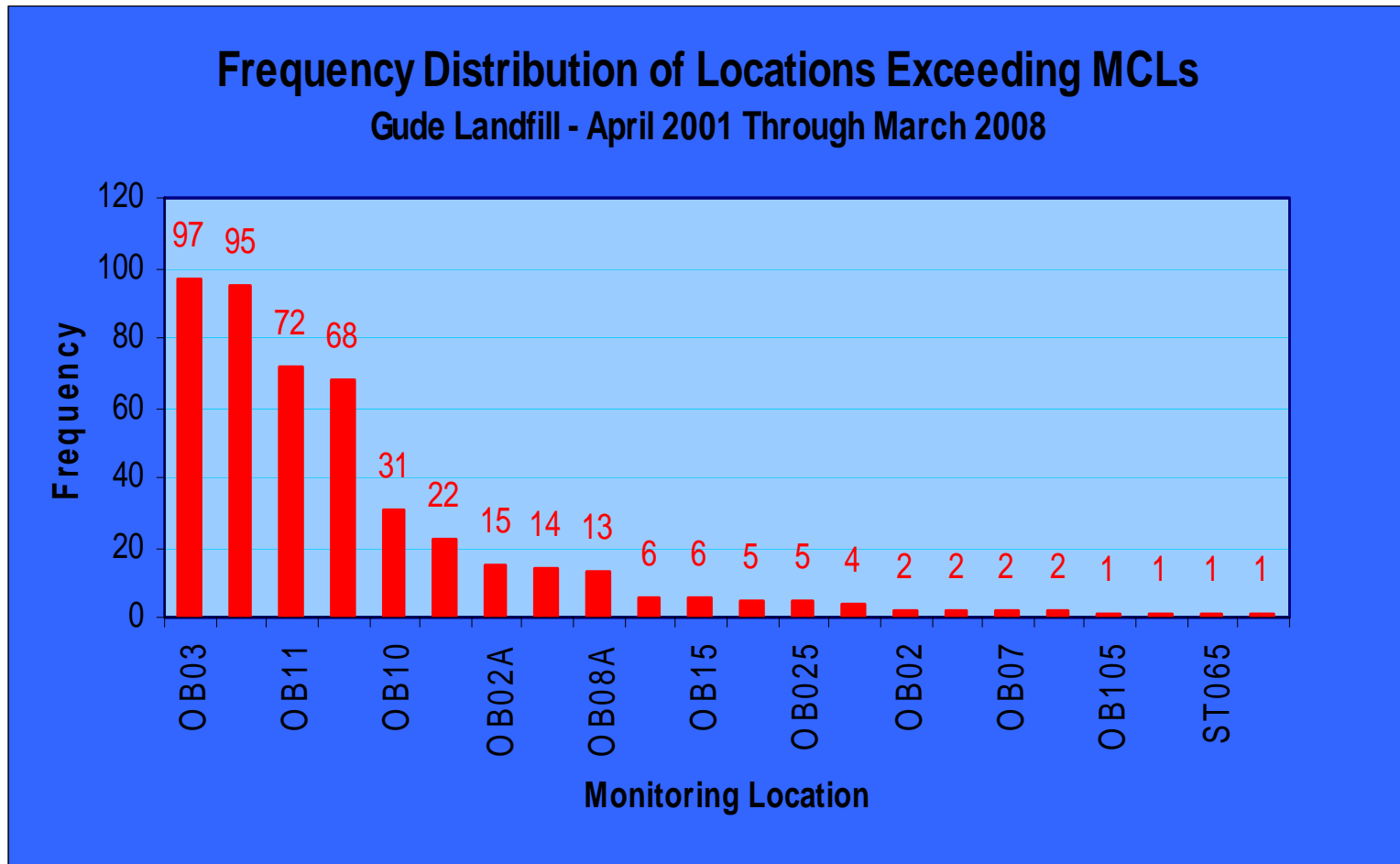
DEP/Lake



Monitoring Results

- **Groundwater**
 - 52,000 data points since 2001
 - < 1% (500+) exceed MCL established for drinking water
 - 70% of samples exceeding MCLs were from wells OB03 and OB11
- **Surface Water**
 - 6800 data points since 2001
 - Total of 7 data points (0.1%) have exceeded the MCL

Sites Exceeding MCLs

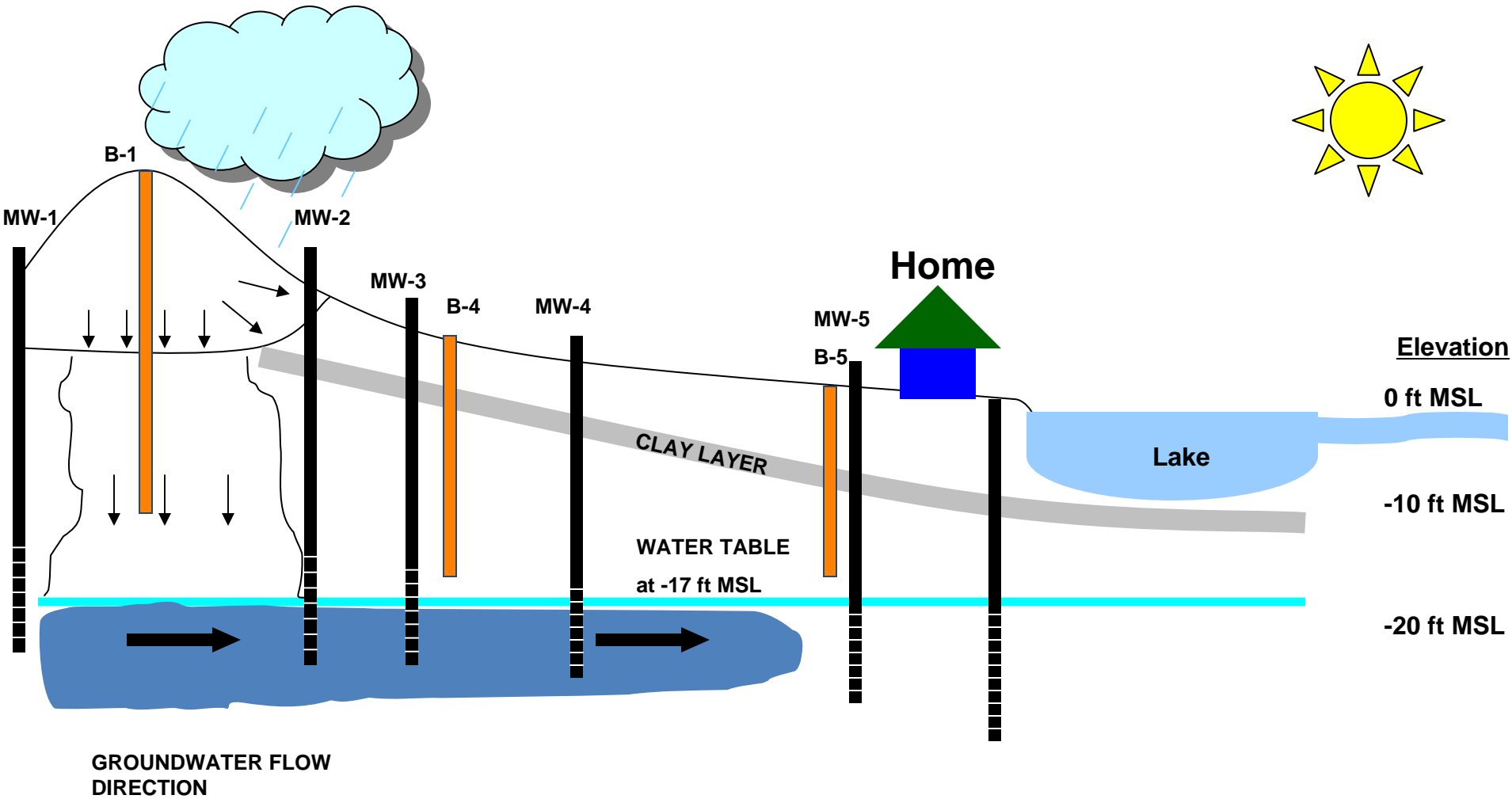


Risk

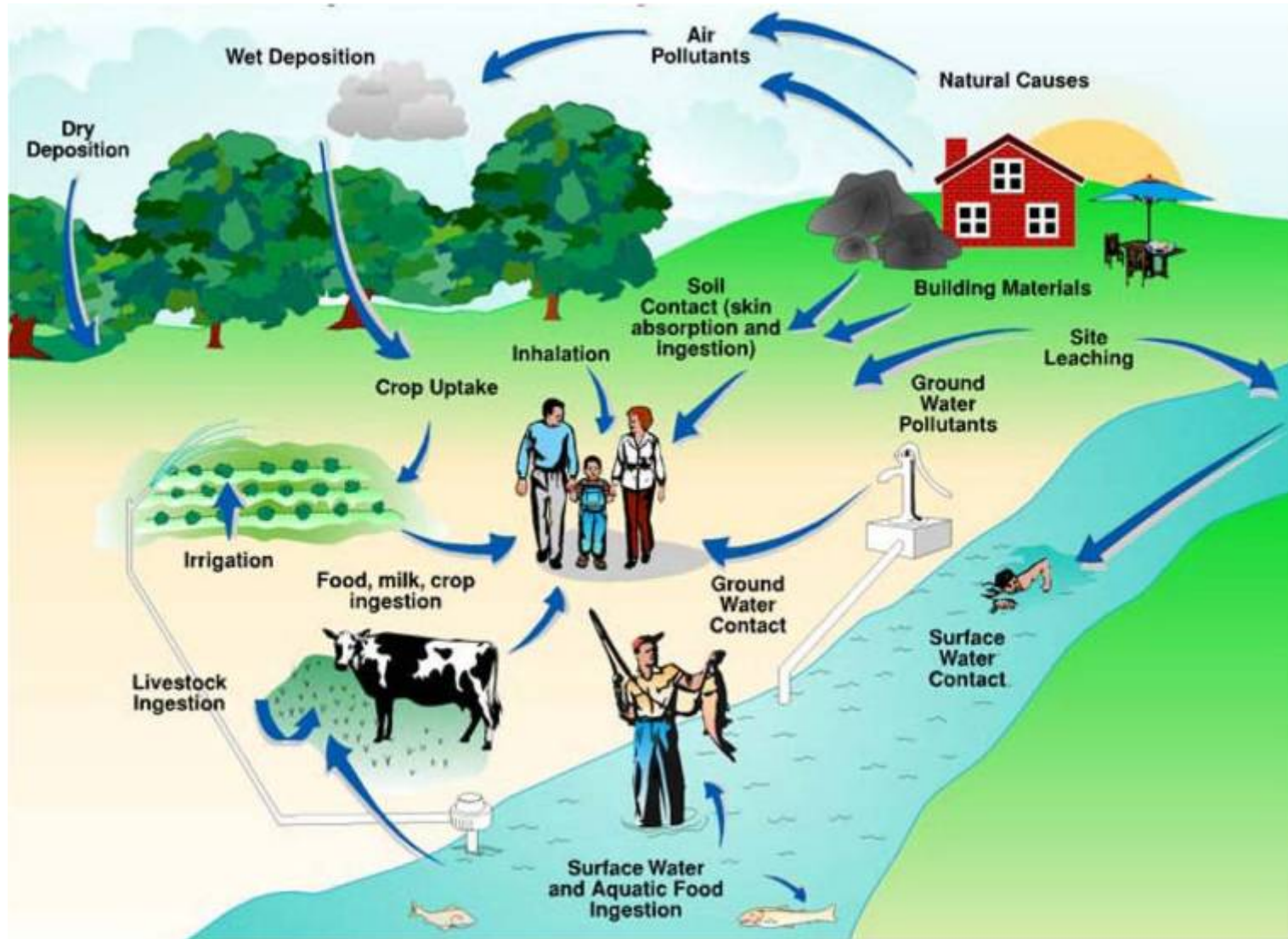
Barbara Roeper – EA Engineering

Conceptual Model

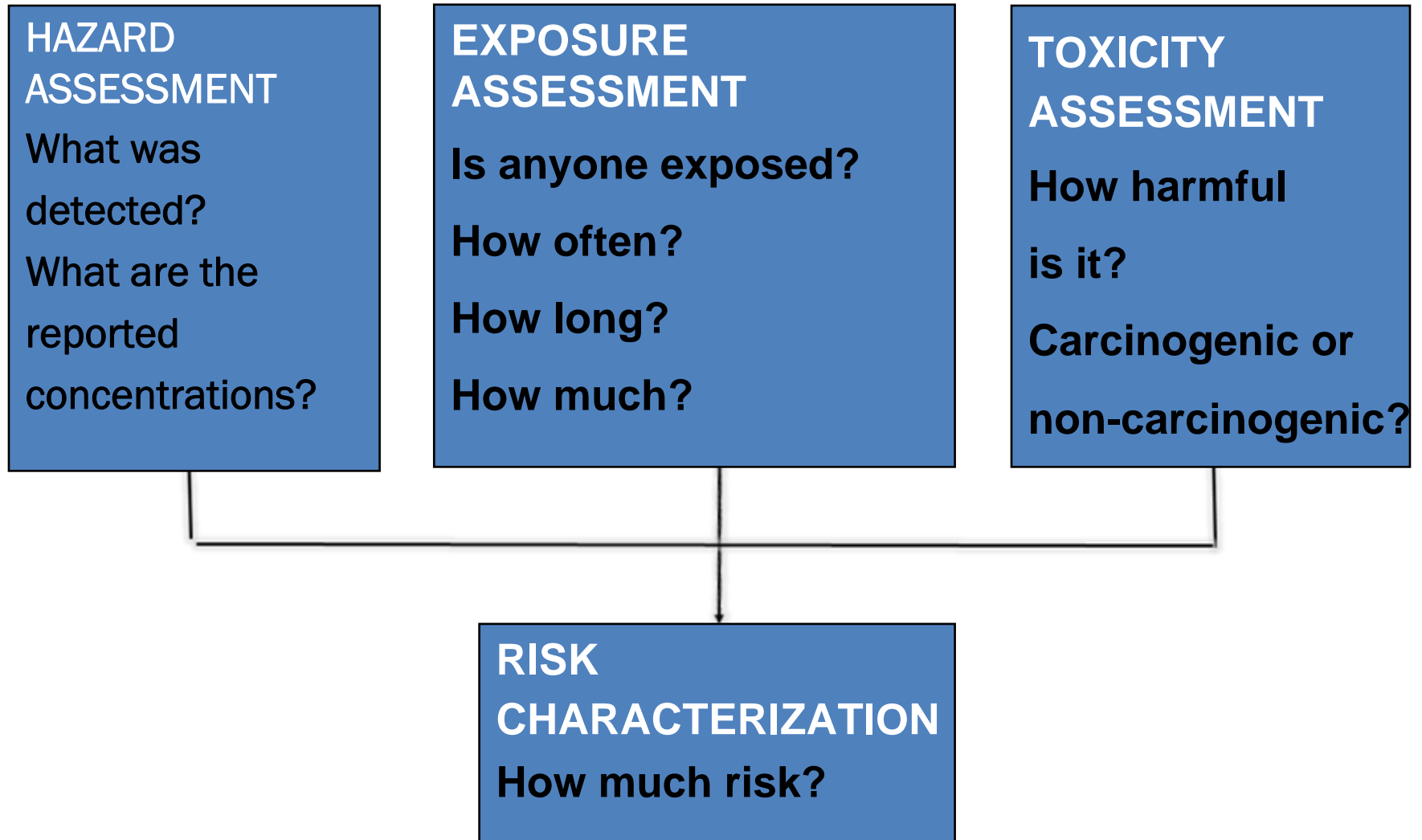
EA/Roeper



Risk Evaluation



Risk Evaluation



Risk Evaluation

- **The following must occur to have a complete exposure pathway:**
 - chemical release
 - route of exposure
 - potential receptor (current and/or future)
- **Incomplete exposure pathways do not result in exposure and are not included in the risk evaluation**

Remediation

- ① **Develop remedial action objectives based on nature and extent of impacts, potential risk, and proposed reuse**
- ① **Identify feasible alternatives, ranging from no action to full-scale remediation**



Reuse

Bob Day - GLCC

Gude Landfill Characteristics



- **162 acres**
- **100 acres of settling waste, 50-100 ft deep**
- **Surface settles irregularly 1-2 ft/ year**
- **Generates 800-1000 cuft/minute of landfill gas for next 20-30 years**

Landfill Gas Collection



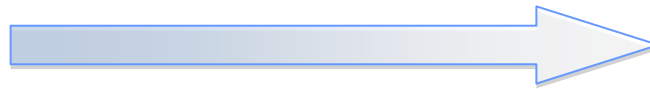
- **84 vertical wells, connected by PVC pipes, collect the landfill gas**
- **Negative pressure system routes gas to generators where it is burned**
- **Extra wells installed in 2005 on NW side of landfill**
- **Pockets of gas can be explosive (>5% methane)**

Reuse of Gude Landfill



Reuse Categories

None



Heavy
Construction

Remediation Efforts

Simple

Not
Expensive

Months

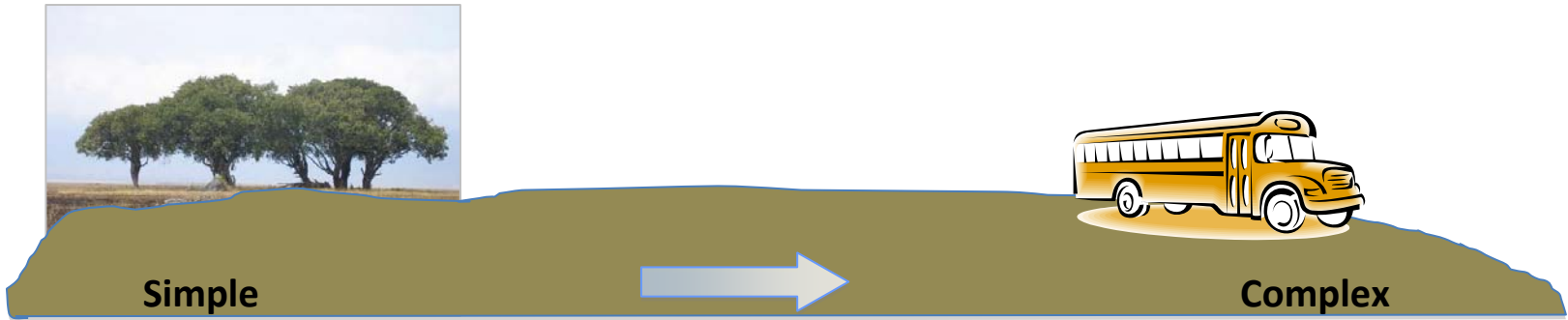


Complex

Very
Expensive

Years

Reuse of Gude Landfill



Walking Paths

Community Center

Archery Range

Soccer Fields

Baseball Fields

Swimming Pool

Dog Park

Toddler Playground

“Water Park”

Xtry Bike Paths

Solar Farm

Running Trails

Picnic Area

Tennis Courts

Model Acft

Kids Play Area

Community Vegetable

Tree Farm

Gardens

Help us fill this in

Send your ideas: GLCC@Hollybrooke.org

Closing

Keith Ligon - GLCC

- **We need your ideas for re-use**
- **Your ideas are important, and your opinion counts**
- **Tell us what you would like on the Gude Landfill**
- **Contact any one of us – at any time**
- **Remediation will not be a quick process, so be patient**
- **We can make the Landfill into a good neighbor**
- **And limited reuse may be possible**