



OAKLAND
COMMUNITY
COLLEGE

Water Quality Pre-Proposal Assessment
Preliminary Report
1999

Requested by
Dave Doidge, Dean of Academic & Student Services

And submitted to
Tracy Cyr, Director of the Rouge Education Project

Prepared by
The Office of Institutional Research

May 26, 1999

Oakland Community College
Water Quality Pre-Proposal Assessment
Preliminary Report
1999

Executive Summary

- This report is incomplete. Of the six listed individuals to participate in the interview, only two were available (J. Ridgeway and S. Kelsey) and one declined the interview.
- It is premature to draw any conclusions at this time. However, this report should provide a background and format to continue this assessment.

Oakland Community College
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Questions

1. Which of the questions asked in the 1993 survey are still valid and appropriate today? If they are not valid, how could they be updated?
2. Which of the responses to the 1993 survey are still valid today? Which are not?
3. Which of the conclusions drawn from the 1993 survey are still valid today? Which are not?
4. Do you feel that the population surveyed in the 1993 survey is appropriate for a similar survey today? If not, do you have suggestions about who should be included?
5. What is your initial reaction to the idea of a formal training program in water quality? What about a broader degree in Environmental Technology/ Science?

Oakland Community College
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Jim Ridgeway

ECT

- In response to Question 1, Item 15 of the questionnaire needs to be separated into two categories: technical knowledge and practical skills
- “Fresh outs” need to have computer- aided design skills (AUTOCAD ARCVIEW, ARCINFO)
- Item q. should include well-drilling.
- Conclusion: need to separate field testing and office skills.
- Responses are skewed toward Environmental responses, which is no longer a booming market. There’s a move away from sanitary engineering, and a need for AUTOCAD and related skills to be more marketable. “Mudworkers” have a place in the market, but it has peaked and no longer growing.
- The conclusions made from the study were correct, but only because it is a result of the population. This survey should be targeted toward ACEC (American Consulting Engineering Council), Camp Dresser McKey, Black & Veach, CH2M Hill, Metcalf & Eddy, McMammie Porter & Sealy, Wade Trim, and Hubble Royh & Clark
- There are 2 problems/ concerns. There are many water quality programs out there. (OCC should look at U- Wisconsin to model their programs. These programs are specifically targeted). Also, water quality programs should include stack sampling and air quality.

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Susan Kelsey
General Motors

- Did not like Question 2c or 2e because these are two different processes (Storage and Transport), which is aimed at management companies. The questionnaire is aimed at consultants, not at environmental engineers. We are moving engineers away from "data clerking." We hire from within, though we may hire "temps."
- No technicians, no recruiting. Don't need them. Don't want them. Consultants are hired in. We seek co-op students with engineering degrees.
- The conclusions are not valid. A bachelor's degree minimum is needed, with emphasis on organic chemistry. The conclusion concerning OCEA is not true; there is no real need, it is not a primary job. There is in-house training (CHMM certified).
- The survey population is skewed, and therefore is not appropriate. Industrial (automotive) and Commercial (plating) environment should be included.
- This idea seems worthwhile, but students would need a chemistry background, including limnology (study of aquatic bodies of water), marine biology, and the study of estuaries. Also, waste/ air management is needed. I would not hire someone with a broad degree. I am looking for engineers.
- Interested in findings. Please call (313.556.6919) or send report to:

General Motors
Argonaut "A" Bldg.
Mail code 482-302-205
485 W. Milwaukee Ave.
Detroit, MI 48202

Oakland Community College
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To: Water Quality Needs Assessment Committee
From : Tracy Cyr
Date: June 15, 1999
Re: Pre-proposal Assessment

The following format is consistent with the Institutional Research Department at OCC. Of the six individuals identified for the phone interview, one declined. The phone interviews were conducted by the Department of Institutional Research and myself, as there was difficulty in getting people to do the interview. The Department of Institutional Research commented that the questions asked did not easily lend themselves to straightforward answers. Therefore, much information was given without a lot of focus. To the extent possible, that department and I have clarified statements made.

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Executive Report

- Of the six listed individuals to participate in the interview, one declined the interview.
- The survey is skewed towards the environmental consulting field, which is no longer a booming market. Should include Industrial (automotive) and Commercial (plating) environmental fields. Also, should include county and city governments.
- A general consensus is that a broader program would be more beneficial, than a narrow focus like water quality. One commented that they are only interested in engineers with emphasis in organic chemistry.
- Two responded that more engineering companies should be surveyed for their needs.

Evaluation of the Needs Assessment for a Water Quality Program Oakland Community College

Please use this form to prepare for the phone conference to be scheduled at your convenience. Where appropriate, reference pages have been included.

1. Which of the questions asked in the 1993 survey are still valid and appropriate today? If they are not valid, how could they be updated? (**employer telephone survey-last 7 pages of packet, not numbered**)
2. Which of the responses to the 1993 survey are still valid today? Which are not? (**pages 21-35**)
3. Which of the conclusions drawn from the 1993 survey are still valid today? Which are not? (**executive summary p.2; document**)
4. Do you feel that the population surveyed in the 1993 survey is appropriate for a similar survey today? If not, do you have suggestions about who should be included? (**pages 36-38**)
5. What is your initial reaction to the idea of a formal training program in water quality? What about a broader degree in Environmental Technology/Science?

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Jim Ridgway
Environmental Consulting & Technology

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Jim Murray
Department of Environment, Wayne County

- Should survey the following entities: Don Tilton, Parks people (City of Dearborn, Southfield), Remedial Advisory Plan Committee people, Public Health employees
- The program should be more broad based – a broader curriculum. Water quality is a surrogate to other problems. Should learn about: water quantity, peaks and droughts, flood in watershed, ecology, WQ chemistry, soils, hydrology, land use.

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Bob Liekfield
Clayton Laboratories

- Surface water: no need for a specific program, business not strong. In SE Michigan there are about 5 jobs a year.
- Should survey the municipalities (county/city), and Ford, GM, Daimler-Chrysler
- Hire people with 4 year degree in general sciences, not with a narrow focus like water quality

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Cathy Bean
Michigan Department of Environmental Quality

- All still valid. If interested in specific program in “water quality” may want to either add a specific category for water quality in several questions or ask specific questions about needs for water quality expertise.
- I am not a consultant, but I assume answers would still apply in general. In general consultants follow regulatory issues and provide services for governments and industry to comply with these regulations.
- I don’t know what the job perspectives are. Government jobs are scarce, which was mentioned in survey. I assume conclusions are still accurate.
- Good population, didn’t see Clayton on list, good consultant in SE Michigan – may want to include. State government does not hire many technicians. May want to include local government in survey as they may hire technicians to comply with federal and state stormwater regulations.
- I think a good broad program is Env. Science/Technology is good. Not sure if enough jobs for program only in water quality. Some courses in this area, however would be very good. Especially with new federal stormwater regulations. Consultants will be focusing on next regs for stormwater coming into effect 2001.

From: DADOIDGE--OCC

To: EADRUMM --OCC

LPSUMMER--OCC

Elizabeth Drumm

Laurie Summer

Date and time

JASEITER--OCC

LXBERMAN--OCC

05/25/99 10:24:55

Julie Seiter

Lynaia Bermann

Subject: Water Quality

Please plan to attend a meeting of the Water Quality planning group in my office, M-201, on June 15 from 1:30 to 2:30pm. Tracy Cyr will present the results of the survey work, and we will plan the next steps of the process.

Dave Doidge

Memo

To: Laurie, Mark
From: Linda
CC:
Date: 04/21/99
Re: Oakland County Drain Commission

Today around 3:30 PM Phil from the Oakland County Drain Commission called to say he won't be able to talk with Mark on Thursday morning because of a scheduling conflict. You can call him to reschedule, but he will be out of town through the first week of May.

His number is (248)858-1031.

Friends of the ROUGE

May 1-5
National Conf.

22586 Ann Arbor Trail, Dearborn Heights, MI 48127

Office (313) 792-9900 • Education Project (313) 792-9626 • Public Involvement Projects (313) 792-9627 • FAX (313) 792-9628

FAX TRANSMITTAL FORM

PAGE 1 OF 7 PAGE(S)

DATE: 4-13-99

TO: Martin Orłowski From: Tracey Cyr - 313-792-9626

COMPANY/ORGANIZATION: OCC Rouge Educ. Director

FAX NUMBER SENDING TO: 810-471-7544 OCC - adjunct instructor

SUBJECT: Arranging Phone interviews OR

Environ Science

Marty:

The following are the phone #'s for the ^{Biology} six people we sent letters to!

- Call 1) Robert Lieckfield - 248-344-2643 x 1721
- 2) Philip Sanzica - 248-858-1031
- 3) Susan Kelsey - 313-556-6919
- 4) Jim Ridgway - 313-963-6600
- 5) Cathy Bean - 734-953-1441
- 6) Jim MURRAY - 313-224-3631

422
224

NO INTERVIEW

Sun

Mon

Tue

Wed

Thu

Fri

Sat

April 1999

Water
quality
interviews

1

2

3

4

5

6

7

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11

12

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15

16

17

18

19

20

21

22

23

24

10AM
Jim
Ridgway
313.963.6600

Reschedule
9AM
Philip
Sanzica
248.858.1031

2:00
Susan Kelsey
313.556.6919

25

26

27

28

29

30

*Call
Jim Murray
to schedule*

*May 1-5
Conference*

Friends of the ROUGE

22586 Ann Arbor Trail, Dearborn Heights, MI 48127

Office (313) 792-9900 • Education Project (313) 792-9626 • Public Involvement Projects (313) 792-9627 • FAX (313) 792-9628

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PAGE 1 OF 7 PAGE(S)

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COMPANY/ORGANIZATION: OCC

FAX NUMBER SENDING TO: 810-471-7544

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- Call 1) Robert Lieckfield — 248-344-2643 x 1721
- 2) Philip Sanzica — 248-858-1031
- 3) Susan Kelsey — 313-556-6919 wants copy of report
- 4) Jim Ridgway — 313-963-6600
- 5) Cathy Bean — 734-953-1441
- 6) Jim MURRAY — 313-224-3631

4/22
9 AM

NO
INTERVIEW

Evaluation of the Needs Assessment for a Water Quality Program Oakland Community College

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4. Do you feel that the population surveyed in the 1993 survey is appropriate for a similar survey today? If not, do you have suggestions about who should be included? (pages 36-38)

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FAX TRANSMITTAL FORM

PAGE 1 OF 2 PAGE(S)

DATE: 4/14

TO: Marty Orłowski

COMPANY/ORGANIZATION: OCC

FAX NUMBER SENDING TO: 248-471-7544

SUBJECT: WR Needs Assessment

Call if you have
any questions

Jacy Cyr



OAKLAND
COMMUNITY
COLLEGE

Orchard Ridge Campus
27055 Orchard Lake Road, Farmington Hills, MI 48334-4579

(810) 471-7500 Fax: (810) 471-7544

March 31, 1999

Mr. Robert Lieckfield, Jr.
Clayton Laboratory Services, Inc.
22345 Roethal
Novi, MI 48375

Dear Mr. Lieckfield:

Oakland Community College (OCC) is in the early stages of assessing the need for a degree program in Water Quality. We are contacting you to ask your help in developing a survey tool that we propose to send to local employers in the water quality field.

In 1993 an Environmental Technology Needs Assessment was conducted using a survey prepared by our research department in partnership with Schoolcraft College. We recognize that the previous survey was broad in nature compared to the more specific area of water quality that we are now exploring. We want to be sure that our survey questions are still pertinent. Given your experience in the water quality field, we would appreciate your suggestions for improving our approach.

We have enclosed a copy of the earlier Needs Assessment, the previous survey questions, and an evaluation sheet for your use. Your help in evaluating the process would be greatly appreciated. A staff member from the OCC Institutional Planning and Analysis Department will contact you the week of April 12th to schedule a phone conference to compile your responses to the evaluation sheet. This phone conference should only take about 10-15 minutes of your time and would help us with our efforts.

Thank you for your support.

Sincerely,

David A. Doidge, Ph.D.
Dean
Academic and Student Services

Tracy Cyr
Needs Assessment Committee Member/
Rouge Education Project Director, FOTR



OAKLAND
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COLLEGE

Orchard Ridge Campus
27055 Orchard Lake Road, Farmington Hills, MI 48334-4579

(248) 471-7500

Fax: (248) 471-7544

March 31, 1999

Mr. Philip Sanzica, P.E.
Oakland County Drain Commission
Public Works Building
One Public Works Drive
Waterford, MI 48328

Dear Mr. Sanzica:

Oakland Community College (OCC) is in the early stages of assessing the need for a degree program in Water Quality. We are contacting you to ask your help in developing a survey tool that we propose to send to local employers in the water quality field.

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Tracy Cyr
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(248) 471-7500

Fax: (248) 471-7544

March 31, 1999

Ms. Susan Kelsey
General Motors
Argonaut "A" Building
Mail Code 482-302-205
485 West Milwaukee Avenue
Detroit, Michigan 48202

Dear Ms. Kelsey:

Oakland Community College (OCC) is in the early stages of assessing the need for a degree program in Water Quality. We are contacting you to ask your help in developing a survey tool that we propose to send to local employers in the water quality field.

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Orchard Ridge Campus
27055 Orchard Lake Road, Farmington Hills, MI 48334-4579

(248) 471-7500

Fax: (248) 471-7544

March 31, 1999

Mr. Jim Ridgway
ECT
220 Bagley Ave.
Detroit, MI 48226

Dear Mr. Ridgway:

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OAKLAND
COMMUNITY
COLLEGE

Orchard Ridge Campus
27055 Orchard Lake Road, Farmington Hills, MI 48334-4579

(810) 471-7500 Fax: (810) 471-7544

March 31, 1999

Mr. Jim Murray
Wayne County Department of the Environment
7th Floor, Neudeck Building
Detroit, MI 48226

Dear Mr. Murray:

Oakland Community College (OCC) is in the early stages of assessing the need for a degree program in Water Quality. We are contacting you to ask your help in developing a survey tool that we propose to send to local employers in the water quality field.

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Rouge Education Project Director, FOTR

① Which of the questions asked in the 1993 survey are still valid and appropriate today? If they are not valid, how could they be updated?

Question 15 gets my attention

Separate tech knowledge from practical skills

ie. "fresh outs" resume (AUTO CAD ARCVIEW, ~~etc~~)
ARCINFO mud

② Which of the responses to the 1993 survey are still valid today? Which are not?

break it to well-drillers
Field testing
Office skills

~~away~~ away from sanitary engineering,
market would be much larger w/ AUTO CAD
"Mud workers" have past

③ Which of the conclusions drawn from the 1993 survey are still valid today? Which are not?

NOT A GROWING MARKET
conclusions were right

④ Do you feel that the population surveyed in the 1993 survey is appropriate for a similar survey today? If not, do you have suggestions about who should be included?

as a result of population

ACFC american consulting engineering counsel / Camp Dresser McKee } Metcalf & Eddy
Black & Veatch } Meiselman
CH2M HILL } Porter & Sealy

⑤ What is your initial reaction to the idea of a formal training program in water quality? What about a broader degree in Environmental Technology/ Science?

2 problems

Ward Trim
Hubbale, Roll, Clark

① million of them offered
(U-Wisc. great programs)
must be specifically target

② "Water quality" ~~to~~ ~~was~~
needs to include
Stack sampling, air quality