FILE COPY

STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

July 18, 2001

CERTIFIED MAIL NO. 7000 1670 0009 6843 8753 RETURN RECEIPT REQUESTED

Mr. and Mrs. Jeff Smith
215 N. Jackson Street
Crystal Springs, Mississippi 39059

RE: 215 N. Jackson Street
Crystal Springs, Copiah County, Mississippi

Dear Mr. and Mrs. Smith:

The Uncontrolled Sites Section of the Mississippi Department of Environmental Quality (MDEQ) has completed a review of the attached *Site Remediation Report*, dated April 2001, prepared by Martin & Slagle, GeoEnvironmental Associates, LLC, for the above referenced property. Also, please find enclosed data sheets containing sample results from analysis conducted by MDEQ's laboratory on split samples collected on your property. The MDEQ requires no further action at this site at this time.

If cleanup standards change or additional data becomes available for the site, then MDEQ will notify the appropriate parties of the need for any additional investigation(s) or remedial action(s). These actions will be consistent with our need to protect human health, welfare, and/or the environment.

If you have any questions, concerning this matter, please contact Gretchen Zmitrovich at (601) 961-5240.

Sincerely,

Russell

Tony Russell, Chief
Uncontrolled Sites Section

Enclosure

Kuhlman Electric-215 N. Jackson (Dabney) SNFA_7-18-01 (gz)

OFFICE OF POLLUTION CONTROL
POST OFFICE BOX 10385 • JACKSON, MISSISSIPPI 39289-0385 • TEL: (601) 961-5171 • FAX: (601) 354-6612 • www.deq.state.ms.us
AN EQUAL OPPORTUNITY EMPLOYER

Mississippi Department of Environmental Quality
Office of Pollution Control Laboratory
1542 Old Whitfield Road
Pearl, MS 39208

PCBs in Soil/Fish

Sample Name:	6592
Misc Info:	Kuhlman Electric Corp. GS-1
Date Acquired:	12-04-00
Operator:	DS

Name	Amount	MQL
Arochlor 1016	Not Detected	36.0
Arochlor 1221	Not Detected	670
Arochlor 1232	Not Detected	34.0
Arochlor 1242	Not Detected	34.0
Arochlor 1248	Not Detected	34.0
Arochlor 1254	Not Detected	67.0
Arochlor 1260	1,310 ppb	670.0

Surrogates

	% Recovery	Limits
TCMX	103	(38-134)
DCB	108	(31-132)

Comments:

Mississippi Department of Environmental Quality
Office of Pollution Control Laboratory
1542 Old Whitfield Road
Pearl, MS 39208

PCBs in Soil/Fish

Sample Name:	6593
Misc Info:	Kuhlman Electric Corp. GS-2
Date Acquired:	12-04-00
Operator:	DS

Name	Amount	MQL
Arochlor 1016	Not Detected	36.0
Arochlor 1221	Not Detected	670
Arochlor 1232	Not Detected	34.0
Arochlor 1242	Not Detected	34.0
Arochlor 1248	Not Detected	34.0
Arochlor 1254	Not Detected	67.0
Arochlor 1260	5,680 ppb	3,350.0

Surrogates	% Recovery	Limits
TCMX	*	(38-134)
DCB	*	(31-132)

Comments: * Surrogate recoveries could not be calculated due to sample dilution.

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STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

October 9, 2000

Mr. and Mrs. Jeff Smith
215 N. Jackson Street
Crystal Springs, Mississippi 39059

RE: soil and wipe sampling

Dear Mr. and Mrs. Smith:

Please find attached the report for the soil and wipe sampling recently conducted at Crystal Springs, MS. The report includes the following:

1. a map showing the sampling locations,
2. a table containing the sample results from the analysis conducted by the mobile laboratory, Environmental Chemistry Consulting Services, and
3. data sheets containing the split sample results from the analysis conducted by the fixed laboratory, Paradigm Analytical Laboratories, Inc.

The MDEQ has scheduled a meeting at 6:00 p.m. on Tuesday, October 10, 2000 at City Hall in Crystal Springs to discuss the results and the remediation of your property. Please contact Gretchen Zmitrovich at 601-961-5240 if you have any questions regarding this report.

Sincerely,

Tony Russell, Chief
Uncontrolled Sites Section

Enclosure

Kuhlman Electric-215 N Jackson_10-9-00 (gz)

OFFICE OF POLLUTION CONTROL
POST OFFICE BOX 10385 • JACKSON, MISSISSIPPI 39289-0385 • TEL: (601) 961-5171 • FAX: (601) 354-6612 • www.deq.state.ms.us
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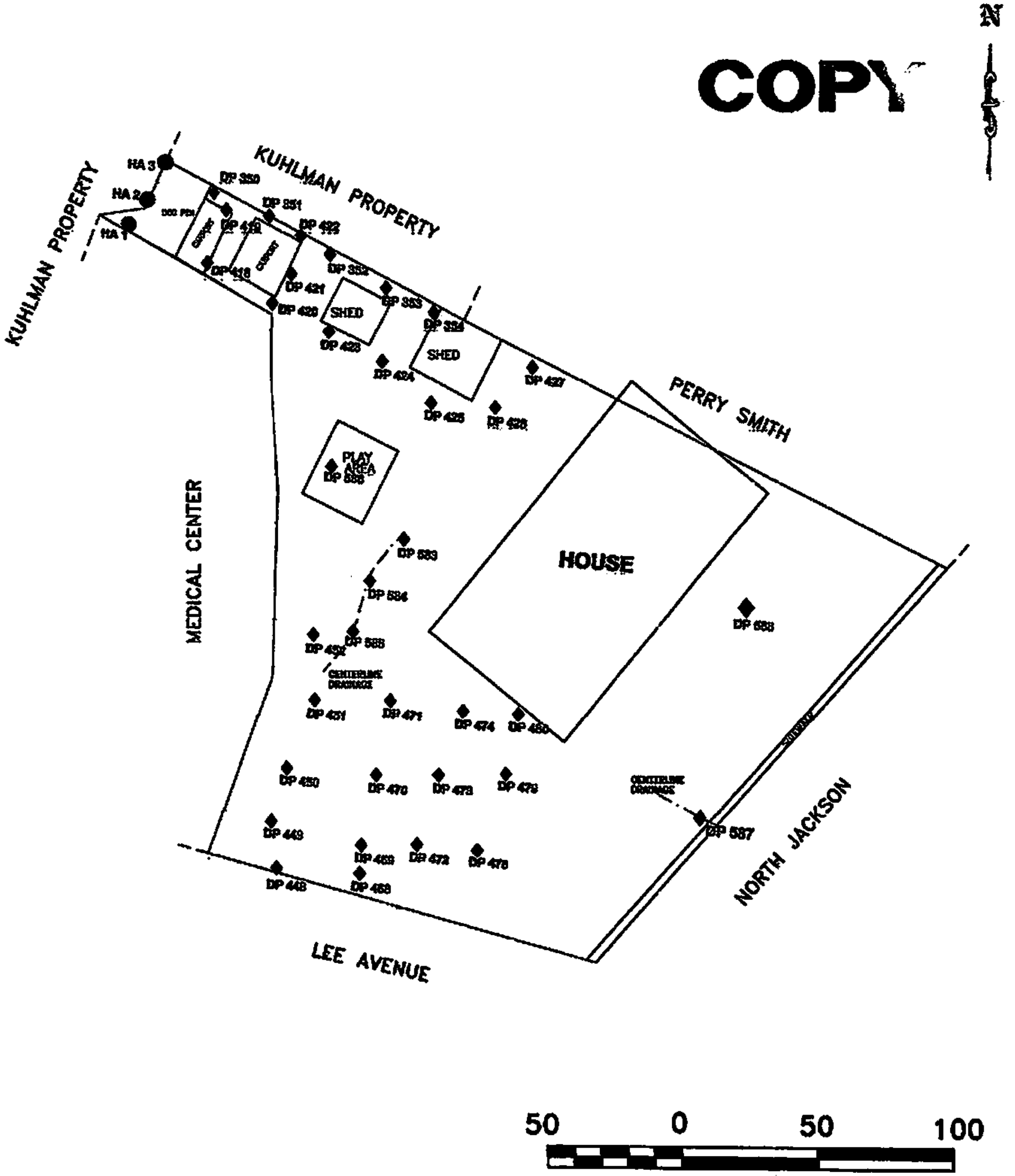


LEGEND

◆	SAMPLE POINT
DP 392	SAMPLE POINT NUMBER
●	SAMPLE POINT
HA 2	SAMPLE POINT NUMBER

1) ALL DISTANCES ARE ESTIMATED
2) THIS MAP WAS PREPARED FROM RECORD MAPS
3) THIS MAP HAS BEEN PREPARED FOR PRESENTATION PURPOSES ONLY

SAMPLE LOCATIONS FOR DABNEY/ SMITH PROPERTY 215 NORTH JACKSON

SCALE: AS SHOWN
DR MDI
CHK TF
REV BPS

PREPARED BY:
OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES
200 SOUTH OLD STATEVILLE ROAD • HUNTERSVILLE, NC 28078 • 704-875-3370

PROJ: 073350000 DATE: 09/24/00 SHEET 1 OF 1

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-350	DP-350	DP-351	DP-351	DP-352	DP-352	DP-353	DP-353
	Depth (ft)	0.5	4	0.5	4	0.5	4	0.5	4
	Lab #	107	108	109	110	111	112	113	114
PCB as 1260		1.8	<0.10	0.33	<0.10	0.55	<0.10	1.8	<0.10
	Collection Date	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00
	Collection Time	16:51	16:53	16:56	16:58	16:59	17:01	17:02	17:04
	Injection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00

WIPE SAMPLES (TOTAL UG)									
Target Analyte	Sample #	JSW-1	JSW-2	JSW-3	JSW-4	JSW-5	JSW-6	JSW-7	JSW-8
	Depth								
	Lab #	690	691	692	693	694	695	696	697
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	11:45	11:47	11:48	11:50	11:55	11:58	12:00	12:03
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Notes:
LOCATION:
JSW1: Starboard fender of boat trailer.
JSW2: Port gunwale amidships on john boat.
JSW3: Red wheelbarrow in boat shed.
JSW4: Riding lawnmower, engine cowling, right side.
JSW5: Riding lawnmower, right rear fender.
JSW6: Utility trailer, right rear fender.
JSW7: North wooden fence, between utility trailer and westernmost shed, one foot above ground surface.
JSW8: Western door of hothouse, lower metal panel.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-354	DP-354	HA-1	HA-1	HA-2	HA-2	HA-3	HA-3
	Depth (ft)	0.5	4	0.5	4	0.5	4	0.5	1.5
	Lab #	115	116	117	118	119	120	121	122
PCB as 1260		0.19	<0.10	0.19	<0.10	7.2	<0.10	0.17	0.31
	Collection Date	8/17/00	8/17/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00
	Collection Time	17:06	17:09	7:50	8:00	8:08	8:10	8:12	8:15
	Injection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00

WIPE SAMPLES (TOTAL UG)									
Target Analyte	Sample #	JSW-9	JSW-10	JSW-11	JSW-12	JSW-13	JSW-14	JSW-15	JSW-16
	Depth								
	Lab #	698	699	680	681	682	683	684	685
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	12:06	12:09	12:11	12:13	12:16	12:18	12:19	12:21
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Notes:

LOCATION:

JSW9: Window A/C unit in hothouse.
JSW10: Shop vac in toolshed area of hothouse.
JSW11: Band saw in toolshed.
JSW12: Lower cabinet doors, hothouse.
JSW13: Front fender of toy plastic ATV.
JSW14: Plastic dump truck.
JSW15: Second stair from bottom on swingset leading to slide.
JSW16: Right edge of slide, next to ground level.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)										
Target Analyte	Sample #	DP-418	DP-418	DP-419	DP-419	DP-420	DP-420	DP-421	DP-421	DP-422
	Depth (ft)	0.5	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	257	258	259	260	261	262	263	264	265
PCB as 1260		1.1	<0.10	0.82	<0.10	<0.10	NA	0.66	<0.10	0.19
	Collection Date	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00
	Collection Time	16:25	16:26	16:30	16:32	16:33	16:34	16:35	16:36	16:56
	Injection Date	8/20/00	8/20/00	8/20/00	8/20/00	8/20/00	NA	8/20/00	8/20/00	8/20/00

Notes:
NA Indicates Sample Not Analyzed

WIPE SAMPLES (TOTAL UG)										
Target Analyte	Sample #	JSW-17	JSW-18	JSW-19	JSW-20	JSW-21	JSW-22	JSW-23	JSW-24	JSW-25
	Depth									
	Lab #	686	687	688	689	1143	1144	1145	1146	1147
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	9/19/00	9/19/00	9/19/00	9/19/00	9/19/00
	Collection Time	12:26	12:28	12:30	12:32	16:15	16:20	16:20	16:32	16:34
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	9/20/00	9/20/00	9/20/00	9/20/00	9/20/00

Notes:
LOCATION:

JSW17: Rubbermaid grill stand in gazebo.
JSW18: Northernmost patio table on covered back porch.
JSW19: French doors leading into breakfast room.
JSW20: Table section of joined twin chaise lounge/table patio furniture.
JSW21: Roadside entrance south facing door threshold.
JSW22: West-facing, western-most backdoor threshold, including tile.
JSW23: North facing adjacent door, tile and threshold.
JSW24: East-facing door, carport entrance.
JSW25: TV screen in bedroom.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-422	DP-423	DP-423	DP-424	DP-424	DP-425	DP-425	DP-426
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	266	267	268	269	270	271	272	273
PCB as 1260		<0.10	0.19	<0.10	<0.10	NA	0.12	<0.10	<0.10
	Collection Date	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00
	Collection Time	17:00	17:07	17:09	17:09	17:10	17:15	17:17	17:18
	Injection Date	8/20/00	8/20/00	8/20/00	8/20/00	NA	8/20/00	8/20/00	8/20/00

Notes:
NA Indicates Sample Not Analyzed

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-426	DP-427	DP-427	DP-448	DP-448	DP-449	DP-449	DP-450
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	274	275	276	322	323	324	325	326
PCB as 1260		NA	0.14	<0.10	0.69	<0.10	*<8.8 J	<0.10	<0.10
	Collection Date	8/19/00	8/19/00	8/19/00	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00
	Collection Time	17:19	17:21	17:22	8:15	8:17	8:24	8:25	8:28
	Injection Date	NA	8/20/00	8/20/00	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-450	DP-451	DP-451	DP-452	DP-452	DP-468	DP-468	DP-469
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	327	328	329	330	331	376	377	378
PCB as 1260		NA	0.23	<0.10	0.90	<0.10	<0.10	NA	<0.10
	Collection Date	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00	8/23/00	8/23/00	8/23/00
	Collection Time	8:29	8:30	8:32	8:36	8:37	10:15	10:17	11:17
	Injection Date	NA	8/22/00	8/22/00	8/22/00	8/22/00	8/23/00	NA	8/23/00

Notes:
NA Indicates Sample Not Analyzed

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-469	DP-470	DP-470	DP-471	DP-471	DP-472	DP-472	DP-473
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	379	380	381	382	383	384	385	386
PCB as 1260		NA	0.16	<0.10	0.42	<0.10	<0.10	NA	0.42
	Collection Date	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00
	Collection Time	11:15	11:16	11:19	11:20	11:22	15:15	15:17	15:20
	Injection Date	NA	8/23/00	8/23/00	8/23/00	8/24/00	8/24/00	NA	8/23/00

Notes:
NA Indicates Sample Not Analyzed

Soil and Wipe Sample Results,
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-473	DP-474	DP-474	DP-478	DP-478	DP-479	DP-479	DP-480
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	387	388	389	399	400	401	402	403
PCB as 1260		<0.10	0.20	<0.10	0.29	<0.10	0.18	<0.10	<0.10
	Collection Date	8/23/00	8/23/00	8/23/00	8/24/00	8/24/00	8/24/00	8/24/00	8/24/00
	Collection Time	15:21	15:22	15:24	10:55	10:56	10:58	10:59	11:02
	Injection Date	8/24/00	8/23/00	8/24/00	8/24/00	8/25/00	8/24/00	8/24/00	8/24/00

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-480	DP-583	DP-583	DP-584	DP-584	DP-585	DP-585	DP-586
	Depth (ft)	4	0.5	2.5	0.5	2.5	0.5	2.5	0.5
	Lab #	404	704	705	700	701	702	703	706
PCB as 1260		<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	0.32
	Collection Date	8/24/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	11:00	14:20	14:21	14:27	14:26	14:39	14:40	14:39
	Injection Date	8/24/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)								
Target Analyte	Sample #	DP-586	DP-587	DP-587	DP-588	DP-588	DP-423	DP-452
	Depth (ft)	2.5	0.5	2.5	0.5 (0.1)	2.5	0.1	0.1
	Lab #	707	708	709	710	711	1118	1119
PCB as 1260		<0.10	<0.10	<0.10	<0.10	<0.10	5.0	2.1
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	9/19/00	9/19/00
	Collection Time	14:40	15:15	15:16	15:20	15:21	11:00	10:50
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	9/20/00	9/20/00

PARA[illegible]M ANALYTICAL LABORATORIE[illegible]NC.

Results for PCBs
by EPA 8082

Client Sample ID: DP 449-0.5
Client Project ID: Kuhlman
Lab Sample ID: 93908
Lab Project ID: G185-79
Matrix: Soil
%SOLIDS: 90.2

Date Collected: 8/22/00
Date Received: 8/23/00
Date Analyzed: 8/30/00
Analyzed By: CLP
Dilution: 1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
Arochlor-1016	330	BQL
Arochlor-1221	330	BQL
Arochlor-1232	330	BQL
Arochlor-1242	330	BQL
Arochlor-1248	330	BQL
Arochlor-1254	330	BQL
Arochlor-1260	330	BQL
Arochlor-1262	330	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	52	52

Comments:
BQL = Below Quantitation Limit
NA = Not applicable, surrogate diluted out.

Reviewed By:

N.C. Certification #481   S.C. Certification #99029

PARA[illegible]GM ANALYTICAL LABORATORIE[illegible]NC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID:	DP 449-0.5	Date Collected:	8/22/00
Client Project ID:	Kuhlman	Date Received:	8/23/00
Lab Sample ID:	93908	Date Analyzed:	8/31/00
Lab Project ID:	G185-79	Analyzed By:	MRC
Matrix:	Soil %Solids: 90.2	Dilution:	1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
Acenaphthene	500	BQL
Acenaphthylene	500	BQL
Anthracene	500	BQL
Benzo[a]anthracene	500	BQL
Benzo[a]pyrene	500	BQL
Benzo[b]fluoranthene	500	BQL
Benzo[g,h,i]perylene	500	BQL
Benzo[k]fluoranthene	500	BQL
Benzoic Acid	1000	BQL
Bis(2-chloroethoxy)methane	500	BQL
Bis(2-chloroethyl)ether	500	BQL
Bis(2-chloroisopropyl)ether	500	BQL
Bis(2-ethylhexyl)phthalate	500	BQL
4-bromophenyl phenyl ether	500	BQL
Butylbenzylphthalate	500	BQL
4-Chloroaniline	500	BQL
4-Chloro-3-methylphenol	500	BQL
2-Chloronaphthalene	500	BQL
2-Chlorophenol	500	BQL
4-Chlorophenyl phenyl ether	500	BQL
Chrysene	500	BQL
Di-n-Butylphthalate	500	BQL
Di-n-octylphthalate	500	BQL
Dibenzo[a,h]anthracene	500	BQL
Dibenzofuran	500	BQL
1,2-Dichlorobenzene	500	BQL
1,3-Dichlorobenzene	500	BQL
1,4-Dichlorobenzene	500	BQL
3,3'-Dichlorobenzidine	1000	BQL
2,4-Dichlorophenol	500	BQL
Diethylphthalate	500	BQL
2,4-Dimethylphenol	500	BQL
Dimethylphthalate	500	BQL
4,6-Dinitro-2-methylphenol	2500	BQL
2,4-Dinitrophenol	2500	BQL
2,4-Dinitrotoluene	500	BQL
2,6-Dinitrotoluene	500	BQL
Fluoranthene	500	BQL
Fluorene	500	BQL
Hexachlorobenzene	500	BQL
Hexachlorobutadiene	500	BQL
Hexachlorocyclopentadiene	1000	BQL
Hexachloroethane	500	BQL
Indeno(1,2,3-c,d)pyrene	500	BQL
Isophorone	500	BQL

PARA[illegible]M ANALYTICAL LABORATORIE[illegible]NC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID:	DP 449-0.5	Date Collected:	8/22/00
Client Project ID:	Kuhlman	Date Received:	8/23/00
Lab Sample ID:	93908	Date Analyzed:	8/31/00
Lab Project ID:	G185-79	Analyzed By:	MRC
Matrix:	Soil %Solids: 90.2	Dilution:	1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
2-Methylnaphthalene	500	BQL
2-Methylphenol	500	BQL
3- & 4-Methylphenol	500	BQL
N-Nitrosodi-n-propylamine	500	BQL
N-Nitrosodiphenylamine	500	BQL
Naphthalene	500	BQL
2-Nitroaniline	500	BQL
3-Nitroaniline	500	BQL
4-Nitroaniline	500	BQL
Nitrobenzene	500	BQL
2-Nitrophenol	500	BQL
4-Nitrophenol	2500	BQL
Pentachlorobenzene	500	BQL
Pentachlorophenol	2500	BQL
Phenanthrene	500	BQL
Phenol	500	BQL
Pyrene	500	BQL
1,2,3,4-Tetrachlorobenzene	500	BQL
1,2,3,5- & 1,2,4,5-Tetrachlorobenzene	500	BQL
1,2,3-Trichlorobenzene	500	BQL
1,2,4-Trichlorobenzene	500	BQL
1,3,5-Trichlorobenzene	500	BQL
2,4,5-Trichlorophenol	500	BQL
2,4,6-Trichlorophenol	500	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.2	102
2-Fluorophenol	10	7.8	78
Nitrobenzene-d5	10	9.7	97
Phenol-d6	10	9.1	91
2,4,6-Tribromophenol	10	7.7	77
4-Terphenyl-d14	10	10.9	109

Comments:

Results are corrected for %solids and dilution where applicable.

Flags:

BQL = Below Quantitation Limit.

Reviewed By:

PARA[illegible]GM ANALYTICAL LABORATORIE[illegible]NC.

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: DP 449-0.5
Client Project ID: Kuhlman
Lab Sample ID: 93908
Lab Project ID: G185-79
Matrix: Soil %SOLIDS 90.2

Date Collected: 8/22/00
Date Received: 8/23/00
Date Analyzed: 8/31/00
Analyzed By: MRC
Dilution: 1

Num.	Compound	CAS#	Match Probability	Result (ug/KG)
1	4,4'-DDT	000050-29-3	91	6400
2	4,4'-DDD	000053-19-0	90	3600
3	Aromatic, Unknown			2700
4	Unknown			660
5	Unknown			480
6	Chlordane, Isomer of			300
7	Chlordane, Isomer of			300
8	Unknown			250
9				
10				

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak height of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak height is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by:

GeoEnvironmental
Associates, LLC
MARTIN&SLAGLE

ROBERT L. MARTIN, LG
Principal Geologist

CHRISTINE E. SLAGLE
Principal Scientist

MEMO

RECEIVED
JUL 23 2001
DEQ-OPC

To: Gretchen Zmitrovich
From: Martin & Slagle
Date: July 18, 2001

Re: Revised Maps for Site Remediation Reports
Medical Center and Dabney-Smith Properties
Crystal Springs, Mississippi

Enclosed please find two copies of the revised maps for Medical Center Property.

If you have any questions, please feel free to contact me at (828) 669-3929.

DJ Martin
D. J. Martin

Administrative Assistant
Martin & Slagle

DJM/dbm
Enclosures

828.669.3929 • 828.669.5289 Fax
PO Box 1023 • 208 Sutton Avenue • Black Mountain NC 28711

GeoEnvironmental Associates, LLC | MARTIN&SLAGLE

ROBERT L. MARTIN, LG
Principal Geologist

CHRISTINE E. SLAGLE
Principal Scientist

FILE COPY

July 13, 2001

RECEIVED
JUL 17 20
DEQ-OPC

Ms. Gretchen Zmitrovich
Office of Pollution Control
Mississippi Department of Environmental Quality
P.O. Box 10385
Jackson, Mississippi 39289-0385

SUBJECT: Revised Maps for Site Remediation Reports
Medical Center and Dabney-Smith Properties
Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

Enclosed are revised maps for the Site Remediation Reports for the Medical Center and Dabney/Smith properties in Crystal Springs, Mississippi submitted to the Mississippi Department of Environmental Quality (MDEQ) in April 2001. Laboratory data sheets are included for samples GS-1, GS-2, and GS-3, which were collected from beneath the shed buildings on the Dabney/Smith property.

Two sets of maps for each site are included in this submittal. All information included in this package should be attached to the appropriate Site Remediation Report when transmitted to the property owners.

If you have any questions or comments, please contact me at (828) 669-3929.

Sincerely,
MARTIN & SLAGLE GEOENVIRONMENTAL ASSOCIATES, L.L.C

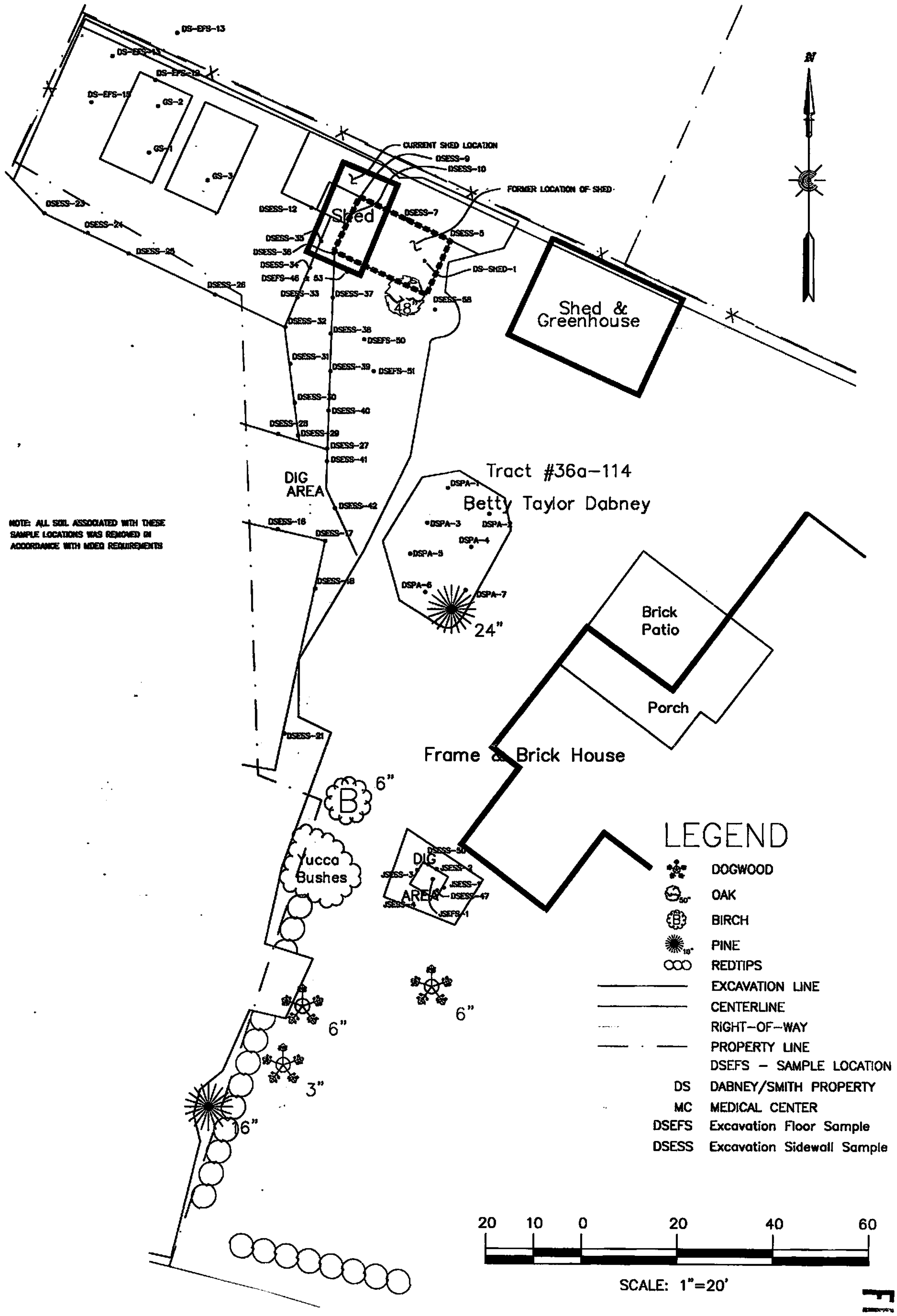
Robert L Martin

Robert L. Martin, L.G.

Principal Geologist

Attachments

Cc.: Anastasia Hamel (2 copies)
Al Thomas
Tom Lupo
Scott Schang
Walter Rielley



NOTE: ALL SOIL ASSOCIATED WITH THESE SAMPLE LOCATIONS WAS REMOVED IN ACCORDANCE WITH MDEQ REQUIREMENTS

GeoEnvironmental Associates, LLC
MARTIN&SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

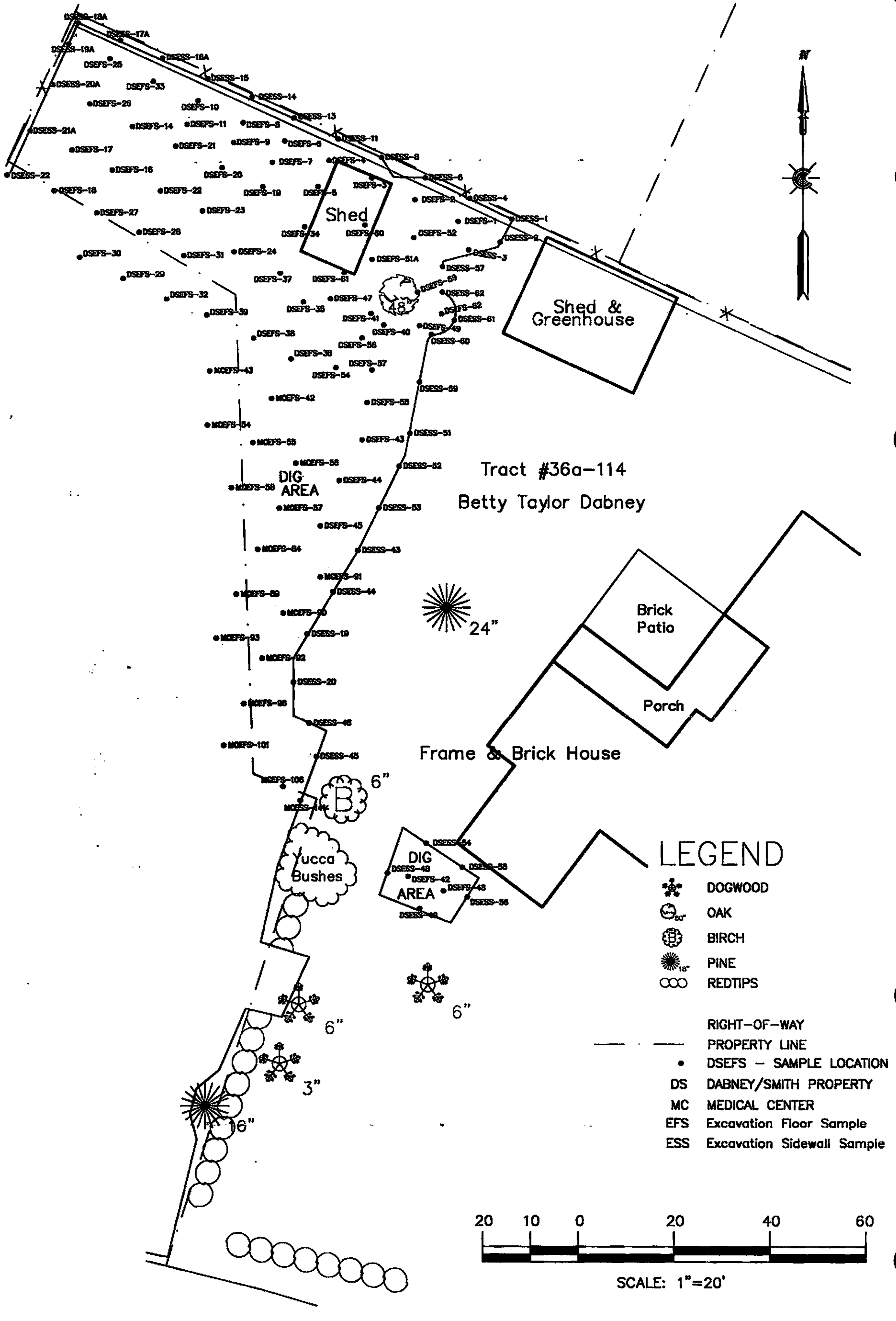
PREPARED FOR:
BorgWarner Inc.

SURVEYED BY:
MAPTECH, INC.
PROJECT NO.: BW00-1
DWG NO: 324A-0343-1100-103-01a
DRWN: DGR CHK: RLM REV: 1 DATE: 7/13/01

SITE REMEDIATION
Dabney Smith Property
SAMPLE LOCATION MAP

SCALE
1"=20'

FIGURE
3



GeoEnvironmental Associates, LLC **MARTIN&SLAGLE** PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: **BorgWarner Inc.**	SURVEYED BY: ***MAPTECH, INC.*** PROJECT NO.: BW00-1 DWG NO: 324A-0343-1100-103-01c DRWN: DGR CHK: RLM REV: 3 DATE: 7/13/01	SITE REMEDIATION Dabney Smith Property SAMPLE LOCATION MAP	SCALE 1"=20'	FIGURE 2

FILE COPY

Gretchen Zmitrovich
07/05/2001 11:01 AM

To: ahamel@afs.bwauto.com @ INETDEQ, robmartin001@aol.com @ INETDEQ
cc:

Subject: remediation reports

I have finished reviewing the reports and revised maps for the Dabney/Smith, medical clinic, and duplex properties. In lieu of sending a formal letter, I am submitting my comments to you via e-mail in hopes of expediting the process.

Medical clinic property:
1. On Figure 3, the following sampling locations are mislabeled: MCESS-8 given as KESS-8, MCESS-117 given as E117, MCEFS-5 given as MCEFC-5, MCDS-3 given as MCD5-3, MCDS-4 given as MCD5-4. MCESS-1 is on map twice-once by 18" pine and once in driveway; only have data for one sample. There was no data submitted for the following sampling locations: MCESS-47, MCESS-48, MCESS-49, MCESS-50.

2. The following sampling locations were on both Figures 2 (revised) and Figure 3, but in different locations: MCESS-52, MCESS-53, MCESS-54.

3. On Figure 2, MCEFS-73 is on map twice-once by covered carport and once on the Dabney/Smith-medical clinic property line; only have data for one sample.

4. I have data for the following samples but they are not on either map: MCEFS-6, MCEFS-10, MCEFS-16. MCESS-14. MCESS-15.

Dabney/Smith property:
1. On Figure 3, DSEFS-50 given as DSSEFS-50.

2. On Figure 2 (revised), DSEFS-39 given as EFS-39.

3. I have data for samples DSESS-17 and DSEFS-46, but they are not on either map.

4. On Figure 3, the samples taken around the current shed location are hard to read because of the black outline of the shed. I have data for DSESS-33, DSESS-35, and DSESS-36; however, it appears that only 2 of these are on the map.

5. I took 2 split samples with Kelly on Dec 4. Samples were labeled GS-1 and GS-2. They were taken in the gravel under the roofed area where I believe Jeff kept his boats. These samples are not on the map, nor are the data included in the report.

Duplex property:
I will be issuing a no further action letter on this property.

Submit revised maps, etc. by July 16. Paulette Herring with Dr. Kruss's office has been anxiously calling me for a submittal date on the no further action letter for the medical clinic. Last month I told her by the end of June, first of July. Jeff Smith has also been awaiting his report. These properties were finished months ago and we need to get them their reports and letters as soon as possible.

GeoEnvironmental Associates, LLC | MARTIN&SLAGLE

ROBERT L. MARTIN, LG
Principal Geologist

CHRISTINE E. SLAGLE
Principal Scientist

RECEIVED
JUL - 2 2001
DEQ-OPC

FILE COPY

June 29, 2001

Ms. Gretchen Zmitrovich
Office of Pollution Control
Mississippi Department of Environmental Quality
P.O. Box 10385
Jackson, Mississippi 39289-0385

SUBJECT: Addenda to Site Remediation Reports for Medical Center and Dabney-Smith Properties Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

Enclosed are addenda to the Site Remediation Reports for the Medical Center and Dabney/Smith properties in Crystal Springs, Mississippi submitted to the Mississippi Department of Environmental Quality (MDEQ) in April 2001. Remediation of these properties is complete.

Per your request, an additional sample location map has been generated for each site showing the locations of samples collected from within the soil that has been removed from the site and disposed of in accordance with DEQ requirements. Additionally, revisions have been made to the sample location maps showing confirmation of remediation to correct minor errors. A revised summary Table 1 and a field laboratory data errata sheet for the Dabney-Smith property are also included. The revised summary Table 1 was corrected to eliminate duplicated field sample identification numbers. The errata sheet identifies the field sample ID modifications for the field lab data sheets.

Two sets of addenda for each site are included in this submittal. All information included in this package should be attached to the appropriate Site Remediation Report when transmitted to the property owners.

If you have any questions or comments, please contact me at **(828) 669-3929.**

Sincerely,
MARTIN & SLAGLE GEOENVIRONMENTAL ASSOCIATES, L.L.C

Robert L Martin

Robert L. Martin, L.G.

Principal Geologist

Attachments

cc.: Anastasia Hamel (2 copies)
Al Thomas
Tom Lupo
Scott Schang
Walter Rielley

TABLE 1
SUMMARY OF DATA SHOWING CONFIRMATION OF REMEDIATION

				Field Laboratory		Fixed Laboratory	
Field Lab Sample ID	Sample ID	Date Collected	Time Collected	Date Analyzed	Concentration (mg/kg)	Date Analyzed	Concentration (mg/kg)
1428	DS-ESS-1	29-Oct-00	12:29	29-Oct-00	0.82	14-Nov	0.71
1429	DS-ESS-2	29-Oct-00	12:31	29-Oct-00	< 0.10		
1430	DS-ESS-3	29-Oct-00	12:33	29-Oct-00	0.65		
1431	DS-ESS-4	29-Oct-00	12:34	29-Oct-00	0.99		
1432	DS-ESS-5	29-Oct-00	12:38	29-Oct-00	**1.8**		
1433	DS-ESS-6	29-Oct-00	12:40	29-Oct-00	0.72		
1435	DS-ESS-8	29-Oct-00	12:42	29-Oct-00	0.93		
1438	DS-ESS-11	29-Oct-00	12:44	29-Oct-00	0.64		
1440	DS-ESS-13	29-Oct-00	12:46	29-Oct-00	**2.1**		
1441	DS-ESS-14	29-Oct-00	12:47	29-Oct-00	**1.9**	15-Nov	1.6
1442	DS-ESS-15	29-Oct-00	12:48	29-Oct-00	**1.1**		
1443	DS-EFS-1	29-Oct-00	12:36	29-Oct-00	< 0.10		
1444	DS-EFS-2	29-Oct-00	12:38	29-Oct-00	< 0.10		
1445	DS-EFS-3	29-Oct-00	12:39	29-Oct-00	0.34		
1446	DS-EFS-4	29-Oct-00	12:41	29-Oct-00	< 0.10		
1447	DS-EFS-5	29-Oct-00	12:46	29-Oct-00	< 0.10		
1448	DS-EFS-6	29-Oct-00	12:43	29-Oct-00	< 0.10		
1449	DS-EFS-7	29-Oct-00	12:48	29-Oct-00	< 0.10		
1450	DS-EFS-8	29-Oct-00	12:44	29-Oct-00	< 0.10		
1451	DS-EFS-9	29-Oct-00	12:54	29-Oct-00	< 0.10		
1452	DS-EFS-10	29-Oct-00	12:50	29-Oct-00	< 0.10		
1453	DS-EFS-11	29-Oct-00	12:52	29-Oct-00	< 0.10		
1467	DS-ESS-19	29-Oct-00	14:36	30-Oct-00	0.60		
1468	DS-ESS-20	29-Oct-00	14:37	30-Oct-00	0.13		
1470	DS-ESS-16A*	30-Oct-00	12:21	30-Oct-00	**1.7**		
1471	DS-ESS-17A*	30-Oct-00	12:29	30-Oct-00	**1.9**	16-Nov	1.8
1472	DS-ESS-18A*	30-Oct-00	12:37	30-Oct-00	**16** ^{E}		
1473	DS-ESS-19A*	30-Oct-00	12:38	30-Oct-00	**22** ^{E}		
1474	DS-ESS-20A*	30-Oct-00	12:38	30-Oct-00	**33** ^{E}		
1475	DS-ESS-21A*	30-Oct-00	12:41	30-Oct-00	**33** ^{E}		
1476	DS-ESS-22	30-Oct-00	12:42	30-Oct-00	**9.2** ^{E}		
1479	DS-EFS-14	30-Oct-00	12:25	30-Oct-00	0.67		
1481	DS-EFS-16	30-Oct-00	12:27	30-Oct-00	< 0.10	16-Nov	<.096
1482	DS-EFS-17	30-Oct-00	12:33	30-Oct-00	0.18		
1483	DS-EFS-18	30-Oct-00	12:35	30-Oct-00	< 0.10		
1484	DS-EFS-19	30-Oct-00	16:20	30-Oct-00	< 0.10		
1485	DS-EFS-20	30-Oct-00	16:24	30-Oct-00	< 0.10		
1486	DS-EFS-21	30-Oct-00	16:28	30-Oct-00	< 0.10		
1487	DS-EFS-22	30-Oct-00	16:32	30-Oct-00	< 0.10		
1488	DS-EFS-23	30-Oct-00	16:36	30-Oct-00	< 0.10		
1489	DS-EFS-24	30-Oct-00	16:40	30-Oct-00	< 0.10		
1503	DS-EFS-25	31-Oct-00	13:45	31-Oct-00	< 0.10		
1504	DS-EFS-26	31-Oct-00	15:40	31-Oct-00	< 0.10		
1531	DS-EFS-29	01-Nov-00	14:45	01-Nov-00	0.18		
1532	DS-EFS-30	01-Nov-00	14:42	01-Nov-00	0.12		
1533	DS-EFS-27	01-Nov-00	14:40	01-Nov-00	< 0.10		

Samples shown in bold were collected from locations along the common boundary with KEC.

* The "A" designation is added to selected field sample IDs to distinguish them from duplicated field sample IDs.

TABLE 1
SUMMARY OF DATA SHOWING CONFIRMATION OF REMEDIATION

				Field Laboratory		Fixed Laboratory	
[illegible] Field Lab Sample ID	Sample ID	Date Collected	Time Collected	Date Analyzed	Concentration (mg/kg)	Date Analyzed	[illegible]
1534	DS-EFS-28	01-Nov-00	14:46	01-Nov-00	< 0.10		
1535	DS-EFS-31	01-Nov-00	14:53	01-Nov-00	< 0.10		
1536	DS-EFS-32	01-Nov-00	14:55	01-Nov-00	< 0.10		
1552	DS-ESS-43	02-Nov-00	16:05	02-Nov-00	0.26		
1553	DS-ESS-44	02-Nov-00	16:15	02-Nov-00	0.19		
1555	DS-EFS-33	03-Nov-00	12:30	03-Nov-00	< 0.10		
1556	DS-EFS-34	03-Nov-00	12:35	03-Nov-00	< 0.10		
1557	DS-EFS-35	03-Nov-00	12:40	03-Nov-00	< 0.10		
1558	DS-EFS-36	03-Nov-00	12:45	03-Nov-00	< 0.10		
1559	DS-EFS-37	03-Nov-00	12:55	03-Nov-00	< 0.10		
1560	DS-EFS-38	03-Nov-00	13:00	03-Nov-00	< 0.10		
1561	DS-EFS-39	03-Nov-00	13:20	03-Nov-00	0.44		
1614	DS-ESS-45	07-Nov-00	9:30	07-Nov-00	0.44		
1615	DS-ESS-46	07-Nov-00	9:25	07-Nov-00	0.32		
1697	DS-EFS-40	15-Nov-00	14:15	15-Nov-00	< 0.10		
1698	DS-EFS-41	15-Nov-00	14:17	15-Nov-00	< 0.10		
1776	DS-ESS-51	27-Nov-00	16:38	27-Nov-00	0.17		
1777	DS-ESS-52	27-Nov-00	16:40	27-Nov-00	0.42		
1778	DS-ESS-53	27-Nov-00	16:41	27-Nov-00	0.39	11-Dec	0.21
1779	DS-EFS-43	28-Nov-00	8:54	28-Nov-00	< 0.10		
1780	DS-EFS-44	28-Nov-00	8:55	28-Nov-00	< 0.10		
1781	DS-EFS-45	28-Nov-00	8:56	28-Nov-00	< 0.10		
1786	DS-EFS-47	28-Nov-00	14:02	28-Nov-00	0.31		
1806	DS-EFS-49	30-Nov-00	13:31	05-Dec-00	0.57		
1822	DS-EFS-51A	05-Dec-00	15:50	05-Dec-00	0.29		
1823	DS-EFS-52	05-Dec-00	15:51	05-Dec-00	< 0.10		
1824	DS-ESS-57	06-Dec-00	13:50	06-Dec-00	0.78	11-Dec	<.14
1826	DS-EFS-54	06-Dec-00	14:02	06-Dec-00	0.34		
1827	DS-EFS-55	06-Dec-00	14:06	06-Dec-00	< 0.10		
1829	DS-ESS-59	07-Dec-00	10:04	07-Dec-00	0.92		
1830	DS-EFS-57	07-Dec-00	10:00	07-Dec-00	0.31		
1831	DS-EFS-58	07-Dec-00	10:01	07-Dec-00	0.33		
1832	DS-EFS-59	07-Dec-00	10:02	07-Dec-00	< 0.10	21-Dec	<.20
1833	DS-EFS-60	07-Dec-00	17:00	07-Dec-00	< 0.10		
1834	DS-EFS-61	07-Dec-00	17:01	07-Dec-00	< 0.10	21-Dec	<.20
AA09856	DS-ESS-60	27-Jan-01	8:14	01-Feb-01	0.20		
AA09857	DS-ESS-61	27-Jan-01	8:15	01-Feb-01	0.63		
AA09858	DS-ESS-62	27-Jan-01	8:16	01-Feb-01	0.44		
1566	MC-EFS-42	03-Nov-00	14:05	03-Nov-00	< 0.10		
1567	MC-EFS-43	03-Nov-00	14:10	03-Nov-00	< 0.10		
1573	MC-EFS-54	03-Nov-00	14:48	04-Nov-00	< 0.10		
1574	MC-EFS-55	03-Nov-00	14:50	03-Nov-00	< 0.10		
1575	MC-EFS-58	03-Nov-00	14:58	04-Nov-00	< 0.10		
1582	MC-EFS-56	03-Nov-00	14:52	04-Nov-00	< 0.10		
1583	MC-EFS-57	03-Nov-00	14:55	04-Nov-00	< 0.10		
1650	MC-EFS-84	07-Nov-00	15:50	08-Nov-00	< 0.10		
1655	MC-EFS-89	07-Nov-00	15:56	08-Nov-00	< 0.10		

Samples shown in bold were collected from locations along the common boundary with KEC.

* The "A" designation is added to selected field sample IDs to distinguish them from duplicated field sample IDs.

TABLE 1

SUMMARY OF DATA SHOWING CONFIRMATION OF REMEDIATION

				Field Laboratory		Fixed Laboratory	
Field Lab Sample ID	Sample ID	Date Collected	Time Collected	Date Analyzed	Concentration (mg/kg)	Date Analyzed	Concentration (mg/kg)
1656	MC-EFS-90	07-Nov-00	15:57	08-Nov-00	< 0.10	18-Nov-00	<0.11
1657	MC-EFS-91	07-Nov-00	15:58	08-Nov-00	< 0.10		
1658	MC-EFS-92	07-Nov-00	15:59	08-Nov-00	< 0.10		
1659	MC-EFS-93	07-Nov-00	16:00	08-Nov-00	< 0.10		
1662	MC-EFS-96	07-Nov-00	16:03	08-Nov-00	0.11		
1666	MC-EFS-101	07-Nov-00	16:08	08-Nov-00	0.12		
1671	MC-EFS-106	07-Nov-00	16:13	08-Nov-00	0.12		
1602	MC-EFS-73	04-Nov-00	16:37	05-Nov-00	< 0.10		
1616	MC-ESS-141	07-Nov-00	9:20	07-Nov-00	0.73		

Samples shown in bold were collected from locations along the common boundary with KEC.

* The "A" designation is added to selected field sample IDs to distinguish them from duplicated field sample IDs.

ERRATA SHEET

Field Laboratory Report
Site Remediation
Dabney-Smith Property
April 2001

1. The prefix "DS" is changed to "JS" per the field notes and chain of custody record for the following field sample identification numbers:

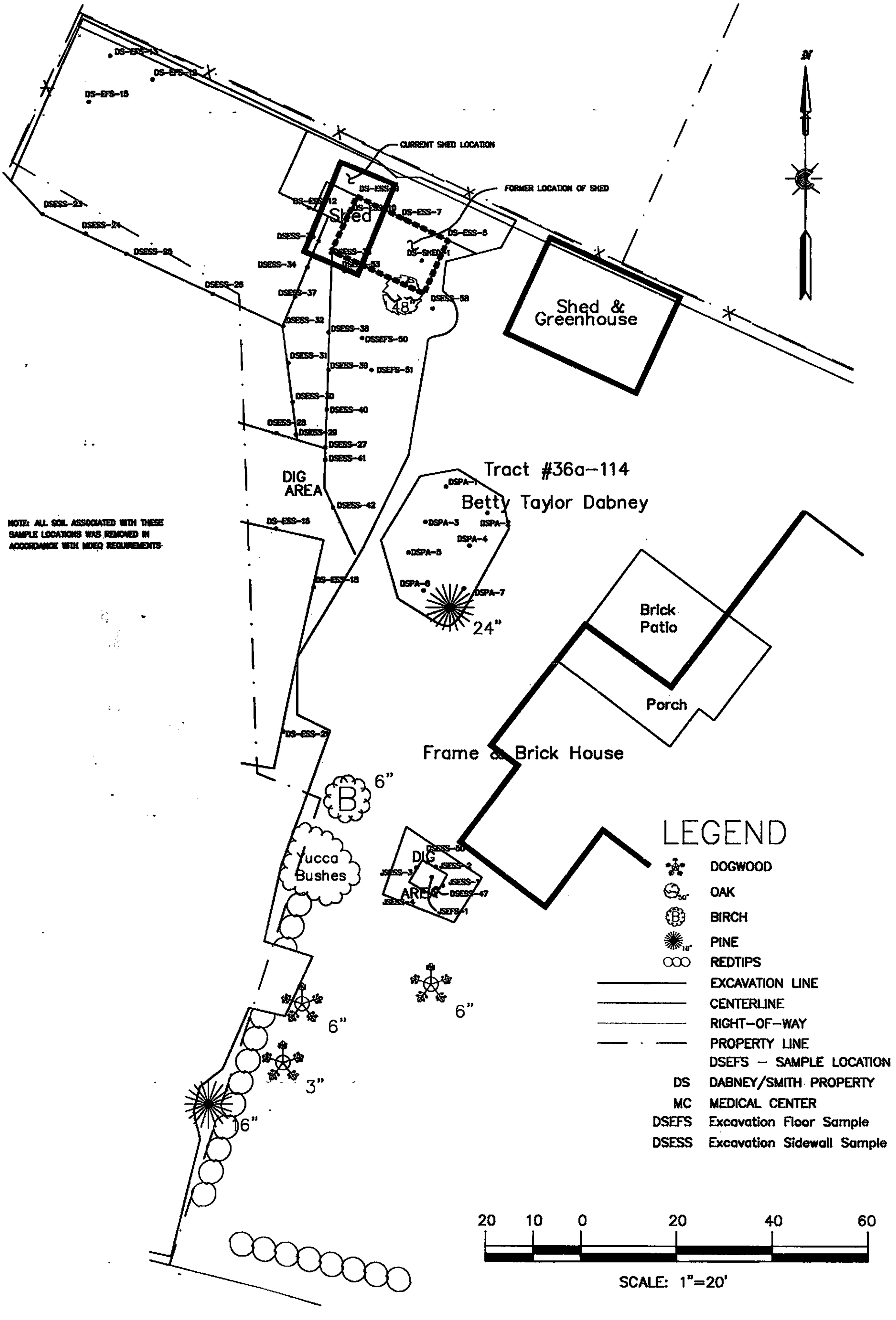
Field Lab Sample ID	Sample ID	Sample Depth (ft bgs)	Date Collected	Time Collected	New Sample ID
1381	DS-ESS-1		26-Oct-00	17:40	JS-ESS-1
1382	DS-ESS-2		26-Oct-00	17:44	JS-ESS-2
1383	DS-ESS-3		26-Oct-00	17:46	JS-ESS-3
1384	DS-ESS-4		26-Oct-00	17:48	JS-ESS-4
1385	DS-EFS-1		26-Oct-00	17:42	JS-EFS-1

2. The suffix "A" is added to the following sample designations:

Field Lab Sample ID	Sample ID	Sample Depth (ft bgs)	Date Collected	Time Collected	New Sample ID
1470	DS-ESS-16		30-Oct-00	12:21	DS-ESS-16A
1471	DS-ESS-17		30-Oct-00	12:29	DS-ESS-17A
1472	DS-ESS-18		30-Oct-00	12:37	DS-ESS-18A
1473	DS-ESS-19		30-Oct-00	12:38	DS-ESS-19A
1474	DS-ESS-20		30-Oct-00	12:38	DS-ESS-20A
1475	DS-ESS-21		30-Oct-00	12:41	DS-ESS-21A

3. The following sample ID was changed from DS-EFS-61 to DS-EFS-62.

Field Lab Sample ID	Sample ID	Sample Depth (ft bgs)	Date Collected	Time Collected	New Sample ID
AA09859	DS-EFS-61		27-Jan-01	8:10	DS-EFS-62



NOTE: ALL SOIL ASSOCIATED WITH THESE SAMPLE LOCATIONS WAS REMOVED IN ACCORDANCE WITH MDEQ REQUIREMENTS

GeoEnvironmental Associates, LLC **MARTIN&SLAGLE**
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

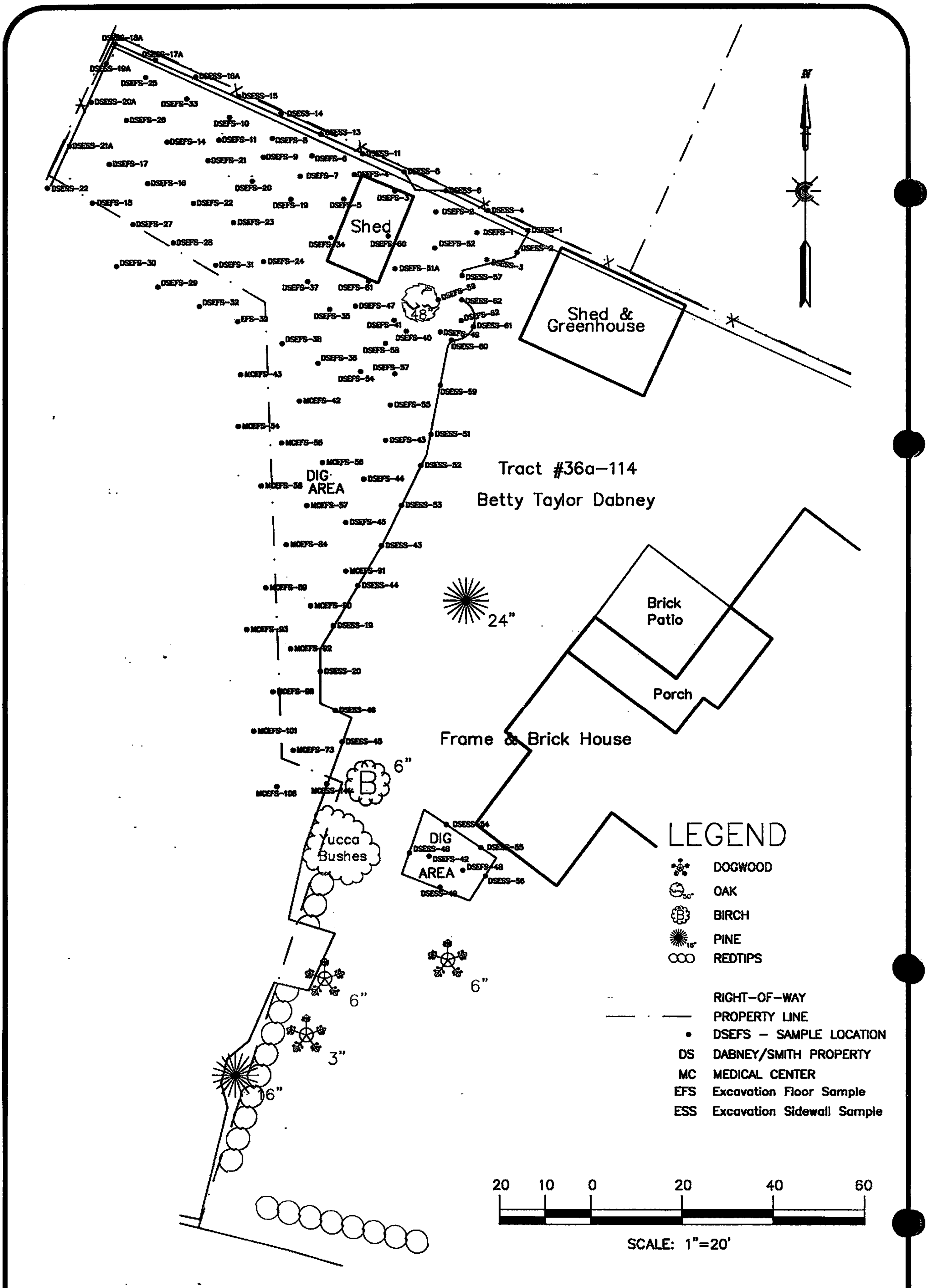
PREPARED FOR:
BorgWarner Inc.

SURVEYED BY:
MAPTECH, INC.
PROJECT NO.: BW00-1
DWG NO: 324A-0343-1100-103-01c
DRWN: DGR | CHK: RLM | REV: 0 | DATE: 6/29/01

SITE REMEDIATION
Dabney Smith Property
SAMPLE LOCATION MAP

SCALE
1"=20'

FIGURE
3



GeoEnvironmental Associates, LLC **MARTIN&SLAGLE**
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

PREPARED FOR:
BorgWarner Inc.

SURVEYED BY:
MAPTECH, INC.
PROJECT NO.: BW00-1

DWG NO: 324A-0343-1100-103-01a

DRWN: RRB	CHK: RLM	REV: 0	DATE: 4/12/01

SITE REMEDIATION
Dabney Smith Property
SAMPLE LOCATION MAP

SCALE	FIGURE
1"=20'	2

GeoEnvironmental Associates, LLC | MARTIN&SLAGLE

ROBERT L. MARTIN, LG
Principal Geologist

CHRISTINE E. SLAGLE
Principal Scientist

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APR 17 2001
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April 14, 2001

Ms. Gretchen Zmitrovich
Office of Pollution Control
Mississippi Department of Environmental Quality
P.O. Box 10385
Jackson, Mississippi 39289-0385

SUBJECT: Closure Reports for Medical Center, Dabney/Smith and Newman Duplex Properties Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

Enclosed are two reports each for the referenced properties in Crystal Springs, Mississippi. Remediation of the three properties is complete.

If you have any questions or comments, please contact me at (828) 669-3929.

Sincerely,

MARTIN & SLAGLE GEOENVIRONMENTAL ASSOCIATES, L.L.C

Robert Martin

Robert L. Martin, L.G.
Principal Geologist

Attachments

cc.: Anastasia Hamel
Hugh Webb
Al Thomas
Tom Lupo
Scott Schang

828.669.3929 • 828.669.5289 Fax
PO Box 1023 • 208 Sutton Avenue • Black Mountain NC 28711

BorgWarner Inc.
200 South Michigan Avenue
Chicago Illinois 60604
Telephone 312 322 8500

AH-00-1638

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DEC 27 2000
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BorgWarner

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

FILE COPY

VIA UPS NEXT DAY AIR

December 20, 2000

Ms. Gretchen Zmitrovich
Mississippi Department of Environmental Quality
Office of Pollution Control
101 West Capitol Street
Jackson, Mississippi 39201

Re: **Progress Report of Assessment and Remediation Activities**
Kuhlman Electric Corporation and Residential Properties
Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

This is a progress report to summarize the assessment and remediation activities related to PCB contamination at Crystal Springs, Mississippi. BorgWarner's last update was **October 31, 2000**. As you are aware, pursuant to the indemnity agreement between Kuhlman Electric Corporation (KEC) and BorgWarner Inc., BorgWarner has continued the assessment at the KEC plant and began the assessment of residential properties along a drainage channel downgradient of the plant. BorgWarner has also been actively remediating those properties adjacent to the KEC plant for which access was previously granted and sampling was complete.

BorgWarner, as it stated in its October 31, 2000 letter to the Mississippi Department of Environmental Quality (MDEQ), remains committed to working closely with MDEQ, USEPA, local government and KEC in a cooperative manner to accomplish the tasks necessary for the protection of human health and the environment, to the extent that the circumstances are covered by its contractual indemnity to KEC. BorgWarner will continue to seek MDEQ's guidance and direction in its current and future intended activities and to promptly share information.

ACTIONS TAKEN AND PLANNED

1. Delineation of Residential Properties along Jackson and Lee Avenues

BorgWarner promptly and voluntarily began sampling and delineation activities at the residential and commercial properties, adjoining the KEC plant that appeared to or reportedly have been affected by runoff or by the removal of soil from the KEC plant prior to October 6, 1999.

Under MDEQ's supervision, BorgWarner conducted delineation activities of these properties during the month of August, 2000. A total of eighteen (18) properties were investigated, which were:

1. Perry Smith, 219 North Jackson Street
2. Stringer Funeral Home, 301 North Jackson Street
3. Stringer Rental Property, 303 North Jackson Street
4. Harold and Suzanne Warren, 403 North Jackson Street
5. Elnor Wright, 401 North Jackson Street
6. Sonny Reeves, 405 North Jackson Street
7. Brent Property, 403 Lee Avenue
8. Louie Lang/David Vinson, 407 North Jackson Street
9. Jerry Youngblood, 100 Lamar St.
10. Medical Clinic, Lee Avenue
11. Edwards Property, 406 Lee Avenue
12. Garment Shop, 414 Lee Avenue
13. Frazier Property, 405 Lee Avenue
14. Duplex Property, 408/410 Lee Avenue
15. Kellum Property, 412 Lee Avenue
16. Dabney/Smith Property, 215 North Jackson
17. Cooper Property, 409 North Jackson
18. Larry and Carol Wright, 305 North Jackson

BorgWarner acted under the continuous guidance and direction of the MDEQ with respect to delineation activities at the residential and commercial properties adjoining the KEC plant. Split samples were analyzed and QA/QC procedures were implemented by two laboratories experienced with polychlorinated biphenyl analysis. Samples were frequently split with on-site MDEQ representatives for MDEQ's independent analysis, which to our knowledge consistently correlated with BorgWarner's on-site and off-site laboratory analytical results.

The delineation activities were conducted utilizing the " US EPA, Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual," May 1996 (EISOPQAM), sampling and analytical protocols. A copy of the work plan with procedures used in the field and applicable sections of the EISOPQAM are attached to this report for reference purposes.

Upon completing the delineation activities, BorgWarner compiled and submitted the analytical results on October 2, 2000 to MDEQ and US EPA, Region IV. Subsequently, BorgWarner began to schedule the remediation of residential and commercial properties adjacent to the KEC plant and along Jackson and Lee Avenues for which access was granted with the assistance of MDEQ and City of Crystal Springs Mayor Webb and where an attorney and/or an independent consultant were not involved in performing conflicting sampling activities.

2. Remediation of Residential Properties

On October 16, 2000 BorgWarner initiated remediation activities at the Medical Center and the Dabney/Smith properties, which are adjacent to the KEC plant. Remediation of the Newman Duplex, on Lee Avenue, began on November 30, 2000. Remediation of these properties involved excavation and disposal of all soil containing 1.0 part per million (ppm) or greater of PCBs in accordance with MDEQ's established clean-up criteria for residential properties. All soils containing greater than 1 ppm PCBs but less than 50 ppm PCBs were profiled and disposed of at the BFI's "Little Dixie" Subtitle D Landfill in Madison County, Mississippi after MDEQ and US EPA, Region IV approvals were obtained.

Following excavation, all excavated areas were sampled to confirm that impacted soil had been removed. In correspondence regarding disposal requirements, Craig Brown of US EPA, Region IV, stated that the excavated soils did not meet the definition of "PCB remediation waste." Under this definition, the remediation activities fell under the management criteria and guidelines set by MDEQ. As a result, the remediation and confirmation of clean-up standards established by MDEQ guidance were adopted and implemented in all of BorgWarner's residential remediation activities. A grid with ten-foot (10) sampling point centers was used to confirm that impacted soils had been removed at each site.

The remediation of the Dabney/Smith, the Medical Center and the Newman duplex property resulted in the removal of 1400 tons of soil, which was disposed of at the BFI "Little Dixie" Subtitle D Landfill and replaced with 1500 tons of certified clean soil. During the remediation activities, the on-site laboratory analyzed 324 soil samples in the month of November and the fixed-base laboratory analyzed 32 quality control samples.

Vegetation, such as live oak trees, was treated with specialty equipment for maximum protection and to minimize damage to the root systems. Soil surrounding the live oak tree roots was removed using an "Air Shovel"™, a unique technology adopted specifically for this purpose. The Air Shovel™ uses a pressure spray to dislodge soil from around the roots while a vacuum system removes the soil and water by vacuuming into a tank. This method of soil removal has performed effectively with minimal damage to the tree's root system as was confirmed by the landscaping contractor and arborist. However, this process, regardless of its effectiveness, is very tedious and as a result only the tree on the Dabney/Smith property was completed during the second half of November. One other live oak tree, located on the Medical Center property, remains to be treated in a similar fashion and is scheduled for January 2001.

Landscaping and replacement of structures (sheds, car ports, etc.) on both the Medical Center and the Dabney/Smith properties are continuing and will most likely be completed by the end of December 2000. Both properties have been surveyed and the fence between the Dabney/Smith and Medical Center properties is currently being re-installed. Landscaping has been completed on the Newman duplex property.

Third party independent sampling activities commissioned by the Nutt & Associates Law Firm have interfered with planned remediation activities along Lee Avenue, specifically at the Frazier's, Edward's, and Kellum's properties. The Garment Shop is a more complicated matter for two reasons. First, the impacted soil at the Garment Shop is located at the property line between it and the Kellum residence and second, the Kellum elm tree roots extend to the Garment Shop property itself. BorgWarner has filed a Freedom of Information Act request to MDEQ in an effort to obtain a copy of the recently submitted report generated by these independent parties.

BorgWarner, after its evaluation of the sampling results and data contained within the third party report, will begin discussions with the attorney(s) representing each resident (mentioned above) along Lee Avenue in an attempt to resolve the matter, including confirmation that all sampling results have been disclosed, and whether further sampling is necessary, and confirm access to then remediate those properties. BorgWarner also plans to keep MDEQ appraised of any developments and any progress or if no progress is being made with the attorney(s) involved.

BorgWarner will schedule delineation activities for the Gas Station, which is at the corner of Lee Avenue next to the Garment Shop, Mayor Webb's residence and the drainage pathway to the south. BorgWarner will inform MDEQ of the timing for those activities.

3. Drainage Channel Properties

Beginning on October 30th through the end of November, BorgWarner collected and analyzed soil samples from nine properties situated along the drainage channel leading from the north side of KEC's plant site to Lake Chautauqua. The properties were:

1. Sojourner Property, 111 McPherson Street
2. Weathersby Property, 101 Forest Street
3. Robert Williams Property (Lonnie Williams' residence), 103 Forest Street
4. Flossie McMurray Property (Ralph Williams residence), 104 Forest Street
5. Ralph Williams Rental Property, 107 Forest Street
6. Richard Williams Property, 102 Forest Street
7. Roberta Fitzgerald Estate Property, (R.P Edwards point of contact) 108 Tucker Street Property currently is being rented to the Kendrick family.
8. Welch Property, 501 Camp Street
9. Orister Harris Property, 311 West Railroad Avenue

A total of 650 soil samples was collected from these properties and analyzed by the on-site laboratory. The fixed-base laboratory analyzed an additional 65 samples for confirmation and quality control purposes. These preliminary assessment activities were conducted in the same manner as the Kuhlman plant preliminary site assessment and the KEC plant adjacent residential properties; and utilizing the "EPA, Region IV Environmental Investigations Standard Operating

Procedures and Quality Assurance Manual", May 1996 (EISOPQAM), sampling and analytical protocols.

Preliminary results available at this time indicate that six of the nine properties that were sampled will require certain remediation. Four properties, including the Sojourner, Williams' rental, Harris and Welch properties, will require remediation under the MDEQ guidelines since the highest concentrations detected are less than 50 ppm. Two properties, including the McMurray and R. P. Edwards properties, have soil with PCB concentrations greater than 50 ppm and therefore will require remediation under the TSCA rules. The following is a list of properties where concentrations greater than 1.0 ppm PCB were detected as well as the highest detected concentration on each property:

Property	Highest Detected Concentration
Sojourner	2.6 ppm
Williams rental	30.0 ppm
Harris	1.2 ppm
Welch	8.4 ppm
McMurray	70.0 ppm
R. P. Edwards	51.0 ppm

Data from this sampling event are being evaluated and once quality control measures are completed the data will be tabulated. Site-specific reports containing collected data, maps of sampling locations, and work plans for remediation, if required, for each individual site are also being prepared and will be submitted to MDEQ and US EPA, Region IV by January 12, 2001.

It is anticipated that additional sampling will be required along the drainage channel. Several undeveloped properties, either abutting the drainage channel or through which the drainage channel runs, will be sampled to delineate the extent of possibly impacted soil and determine the potential for future runoff to Lake Chautauqua. The Department will be kept appraised as to the timing for this additional investigation and sampling activity.

4. KEC Plant

After an initial phase of sampling in the areas identified by KEC's construction activities and the related equipment decontamination zone, BorgWarner conducted further, substantial sampling activities in the south and north parking lot areas as well as the former above ground storage tank area. These delineation activities, other than any possible data gaps, have been completed. The results are currently being tabulated and compared for correlation purposes between the on-site and off-site laboratories, prior to being issued to MDEQ. Should any data gaps exist, BorgWarner will conduct further sampling activities.

This additional data will be incorporated as an addendum to the *Preliminary Site Assessment Report,* submitted to MDEQ in July 2000. Comments to the *Preliminary Site Assessment Report* made by MDEQ will also be addressed and included in the addendum submittal. It is anticipated that the addendum report will be submitted to MDEQ by February 12, 2001.

5. Lake Chautauqua

BorgWarner intends to consider delineation of the sediments at Lake Chautauqua, ecological assessment, and surface water sampling, to the extent appropriate after receipt of the pending "Task Force" report. These activities will not begin on any great scale until the Task Force report is evaluated.

6. Groundwater Delineation

BorgWarner intends to delineate the nature and extent of any groundwater contamination relative to the KEC plant. Groundwater delineation will take place at the time that remediation at the KEC plant commences. It is critical that the protective cover at the KEC plant site is not disturbed for the time being and that the groundwater investigation is addressed when BorgWarner is actively remediating on the KEC plant property. This approach will ensure that sediments from the KEC Plant do not travel to the drainage channel and Lake Chautauqua.

BorgWarner remains dedicated to continuing its open communication with MDEQ and US EPA, Region IV and looks forward to the meeting with MDEQ and City of Crystal Springs Mayor Webb and other Crystal Springs representatives on January 17, 2001 (at 8:30 a.m.) to further discuss any of the above and share its plans for future activities.

Should you have any questions or comments, please contact me directly at (810) 497-4503 at your earliest convenience.

Very truly yours,

Anastasia Hamel

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.

Attachments:

1. Work Plan – Preliminary Assessment and Remediation
2. Craig Brown, US EPA, Region IV letter to BFI

cc: J. Banks, MDEQ
T. Russell, MDEQ
K. Dowell, Esq., MDEQ
C. Brown, US EPA Region IV
H. Webb, Mayor Crystal Springs
Laurene H. Horiszny, Esq.
Robert Martin, MSGA
Thomas D. Lupo, Esq.
Scott E. Schang, Esq.
Mickey Crockett, KEC
Al Thomas, KEC

WORKPLAN FOR THE PRELIMINARY ASSESSMENT AND REMEDIATION OF PCB CONTAMINATION IN SOIL KUHLMAN ELECTRIC CORPORATION FACILITY AND RESIDENTIAL COMMERCIAL PROPERTIES IN CRYSTAL SPRINGS, MISSISSIPPI

As established by the Mississippi Department of Environmental Quality (MDEQ) guidelines in connection with this project, all work related to the preliminary assessment of the extent of contamination at the Kuhlman Electric Corporation (KEC) facility and work related to the preliminary assessment and confirmation of remedial actions at KEC adjacent residential/commercial properties and residential properties along the drainage channel (leading from the north side of KEC's facility to Lake Chautauqua) has been performed in accordance with the *Environmental Protection Agency (EPA), Region IV "Environmental Investigations, Standard Operating Procedures and Quality Assurance Manual", May 1996 (EISOPQAM).*

Copies of relevant and applicable portions of the EISOPQAM are maintained on site during all field activities and all field personnel are trained in its implementation. Remedial action confirmation sampling grids were established using *MDEQ Guidance Document, Verification of Soil Remediation, Environmental Response Division, Waste Management Division, April 1994, Revision 1.* Specifically, sampling grids were based on Part 2-Medium and Large Site Soil Cleanup Verification, "Establishing Grid Interval."

Field operations were performed under the site-specific Health and Safety Plan guidelines. Modified Level "D" Personal Protective Equipment (PPE) was utilized by all personnel working within the investigative area.

Sampling Objectives

The soil-sampling objective is to establish the vertical and horizontal extent of contamination resulting from historical facility operations. In the KEC facility case, the soil-sampling objective included historical use of polychlorinated biphenyl (PCB). All sampling procedures were conducted in accordance with the US EPA, Region IV EISOPQAM. Sampling procedures included the collection of soil samples on a twenty foot triangular grid, where possible, at discreet depth intervals. Surface and subsurface soil samples were collected using GeoProbe® MacroProbe™ direct push sampling equipment. The GeoProbe® system uses a hydraulically driven hammer to advance a hollow, split-barrel sampler to the desired depth. The sampler contains an acetate liner in which a sample of the cored soil is retained. The MacroProbe™ corer retains a 1.25-inch diameter continuous 4 feet in length core sample. Once sampling is completed, the direct-push boring holes are backfilled with bentonite chips in unpaved areas, and with grout in parking lots and other paved areas.

Throughout the delineation activities each direct-push boring was sampled at 0.5-3.0 feet below ground surface (bgs) and at 3.0-6.0 feet bgs. Selected borings were completed to depths varying from 8-12 feet bgs and sampled in these deeper intervals to evaluate the vertical distribution of contaminants.

Additional sampling of dust, stream and drainage ditch sediments, surface water and ground water were collected, as warranted, in accordance with applicable EISOPQAM guidelines.

Analytical Methods

Samples that were collected were analyzed for PCBs by the on-site mobile laboratory, Environmental Chemistry Consulting Services (ECCS) of Madison, Wisconsin. Initially soil samples were also analyzed for chlorinated benzenes until data confirmed that chlorinated benzene contamination is not at issue in samples with low concentrations of PCBs (generally <20 ppm). At least 10% of all samples were split and sent to a fixed-base laboratory, Paradigm Analytical Laboratories, Inc. (PAL) of Wilmington, North Carolina for analysis of the same parameters as for the on-site mobile laboratory to corroborate the results of laboratory analyses for quality control and quality assurance measures. Both the on-site and fixed-base laboratories used the same standard EPA approved analytical methods. PCBs were analyzed by Modified Environmental Protection Agency (EPA) Method 8080/81 and chlorinated benzene compounds were analyzed by EPA Method 8270. Volatile organic compounds (VOCs) were analyzed by EPA Method 8260 for samples suspected of being impacted by other industrial processes solvents unrelated to PCBs. Select soil samples were also analyzed for silver, by EPA Method 6010B, and cyanide, by EPA Method 9012A.

Surface water samples were analyzed by PAL for PCBs using EPA Method 8080/81. Semivolatile organic compounds (SVOCs) were analyzed by EPA Method 8270, Volatile Organic Compounds (VOCs) were analyzed by EPA Method 8260, silver by EPA Method 6010B, and cyanide using Standard Method 4500 Cn-E. Perched ground water was analyzed for PCBs, SVOCs, and VOCs by the same methods as indicated above for surface water.

Quality Control

The following is the list of key personnel dedicated to this project:

Project Manager:	Mr. Robert Martin, Martin & Slagle GeoEnvironmental Associates, LLC
Duties:	Responsible for management of project including all field coordination efforts.
Field Sample Custodian:	Mr. Robert Martin, Christine Slagle, Martin & Slagle GeoEnvironmental Associates, LLC
Duties:	Maintaining custody of samples, completing sample labels, Chain-of-Custody record.
Field Team Leader:	Mr. Robert Martin, Martin & Slagle GeoEnvironmental Associates, LLC
Duties:	Responsible for all activities related to the collection of samples.
Samplers:	Tim Fitzpatrick, Christine Slagle, Robert Martin
Duties:	Individuals responsible for the actual collection of samples.
Laboratory Sample Custodian:	Mr. Michael Linskens, ECCS Mr. Nicolas Schertz, ECCS Ms. Erin Staagard, PAL
Duties:	Individuals responsible for accepting custody of samples from the field sample custodian.

Quality Assurance Objectives for Data

Data for this project is being generated by two separate entities. The on-site data is generated by ECCS in their mobile laboratory. The fixed-base laboratory, PAL in Wilmington, North Carolina, generates the analytical results for the split samples.

The data quality objectives are pre-defined for the ECCS data in that Mississippi considers all mobile lab data screening level data. ECCS uses the same equipment and methodology as the fixed-base laboratories with the exception of the mini-extraction modification. Mobile laboratory data is validated by comparison of a minimum of 10% split samples with PAL. Following this procedure, the data qualifies as screening data with definitive confirmation under US EPA, Region IV EISOPQAM guidelines.

All samples sent to PAL were collected as follows: The sample was transferred from the GeoProbe® clean, unused, acetate sample liner into the labeled 4 ounce (oz) amber glass soil jar. The sample jar was then transferred to the mobile lab where ECCS personnel homogenized the sample prior to taking an aliquot for analysis. Due to the limited sample volume required by the ECCS mini-extraction and the low volatility of the chemicals of concern, the initial sampling jar was resealed (after ECCS personnel removed the amount of sample needed for their analysis), refrigerated and then sent to PAL; meaning PAL analyzed the sample from the exact same sample jar as ECCS.

Equipment rinsate samples were collected for evaluation of cross-contamination potential from ineffective decontamination procedures. These were prepared by pouring distilled water over the sampling equipment after decontamination and collecting and preserving the rinsate that was generated. Equipment rinseate samples were collected in accordance with the EPA, Region IV EISOPQAM guidelines.

Field blank samples were collected by filling sampling containers that were kept in the transition zone with distilled water. Field blanks determine the presence of ambient contaminants that may not be directly related to concentrations of contaminants in the sample media.

Blind duplicate soil samples were collected for analysis and sent to both laboratories. Blind duplicates were collected by homogenizing an aliquot of sample in a disposable plastic container and splitting the homogenized sample into two containers. After ECCS took their aliquot of these samples, the remainder of the sample was sent to PAL for analysis.

SAMPLE CONTROL AND FIELD RECORDS

Sample Identification

All samples sent to PAL for analysis conform to the labeling requirements under section 3.2.1 of the EISOPQAM.

8.3.1 Chain of Custody Procedures

Samples were logged as they were collected from the geoprobe liners. Date, time and sample litholgy were recorded on each log. Samples were then transferred to 4 oz amber glass jars and the jars transferred to a small sample cooler, which was taken to the mobile lab by field personnel in charge of sample handling. Sample identification (ID), date and time sampling occurred were recorded in the field logbook before transferring the samples to the mobile lab. Upon arrival at the mobile lab, the samples were transferred to the ECCS sample custodian who logged each sample on ECCS chain of custody forms. Each sample was assigned a unique ECCS internal ID number for tracking purposes. After analysis, the samples were transferred to either a sample refrigerator in the mobile lab or stored in coolers with ice until they were either shipped to PAL for confirmation analysis or readied for disposal. For samples sent to PAL, a new chain of custody form was completed by field personnel in charge of sample handling.

8.3.2 Field Records

Field records were kept in accordance with procedures and guidelines specified in section 3.5 of EISOPQAM.

8.4 Analytical Procedures

For analysis of samples in the field, ECCS used EPA Method 8082m, modified for quantitation of chlorinated benzenes and the mini extraction procedure.

PAL used EPA Method 8082 for quantitation of PCBs. For chlorinated benzenes, it used EPA Method 8270. While Method 8270 does not cover all the chlorinated benzenes, it provides confirmation of the ones it does detect and has the added benefit of supplying an analysis of a broad range of other semivolatile organic compounds.

For the analysis of cyanide EPA Method 9012A was employed and for silver EPA Method 6010B.

Selected samples were analyzed by EPA Method 8260, primarily to confirm that volatile organic compounds were not present in the samples or part of the site contaminants.

8.5 Laboratory Quality Assurance/Quality Control (QA/QC)

QA/QC procedures for both labs were found to be virtually identical. Summaries of each laboratory procedures follow.

ECCS:

- Continuous calibration standards analyzed every ten samples or less and at the end of a run.
- Blank samples and laboratory control samples (LCS) analyzed every twenty samples or less with a minimum of one per day.
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples analyzed every twenty samples or less with a minimum of one per day.

PAL:

- Continuous calibration standards analyzed at least once every 12 hour shift plus a minimum of every 20 samples gas chromatography/mass spectroscopy (GC/MS) criteria follows method specific tuning requirements per EPA Method 8270.
- Blank and LCS samples analyzed every 20 samples or less with a minimum of one per day.
- MS/MSD samples analyzed every 20 samples or less with a minimum of one per day.

8.6 Data Validation and Reporting

As discussed in section 8.2, the primary validation of the ECCS data was accomplished through comparison with the data from PAL.

Since Hexachlorobenzene and 1,2,4-Trichlorobenzene are the only chlorinated benzenes on the standard Method 8270 list, these two compounds and total PCBs were the parameters tracked for the data validation procedure.

Overall, the correlation to this point of the investigation and remediation activities has been excellent with the majority of sample splits showing Relative Percent Differences (RPDs) of less than 100. Considering the inherent variability of soil as a matrix, achieving 93% acceptable split data spanning several orders of magnitude of concentration serves to justify the use of the on-site data as definitive quality.

FILE COPY

"Hamel, Anastasia (AFS-Warren)" <AHamel@afs.bwauto.com> on
02/02/2001 12:38:36 PM

To: Smith Jeff <JSmith@sheldonlabs.com>
cc: "Martin, Robert L." <RobMartin001@aol.com>, Zmitrovich Gretchen
<Gretchen_Zmitrovich@deq.state.ms.us>

Subject: RE: kuhlman/Borg Warner

Hello Mr. Smith,

How are you? I took the liberty to respond to your e-mail to Gretchen Zmitrovich, MDEQ, for the simple reason that I wanted to put you at ease and to let you know that we have not forgotten about you. As a matter of fact, I looked forward to meeting you every time I am at Crystal Springs. You may not know this, but I spend at least one week out of each month in Crystal Springs. Last time I was there was in the middle of January 2001 and plan to be there again the week of February 19th. Perhaps I will get the opportunity to meet you then at your convenience.

You are right, we have completed the remediation on your property and I do hope that the work that was done, (the building of the shed and the fence) was to your satisfaction. The tree decontamination has also been completed. We realized given the age of the trees that not only they have been there for a long time but also have sentimental value and for those reasons we attempted to do our very best to save them. So far, our arborist has informed us that there is a very good chance the trees will do just fine.

To my knowledge, based on discussions with Robert Martin, what remains to be done in your yard is to add gravel by the shed and complete the landscaping. As you know, we have to go through the medical building yard to get to yours, and because of that we have been waiting for the weather to dry so that we can drive the heavy vehicles and bring in the gravel that is needed. Our landscaper has also been waiting for better weather to complete the landscaping. As you know though, the weather has not been cooperating at all. Also, from what I have been told, Keith Warren from Venture has been in touch with you concerning the gravel etc. earlier this week. If that is not the case, please let me know.

As far as the results from the remediation, you will definitely receive a complete report with the appropriate details. As before, the report will first be submitted to MDEQ and MDEQ will forward a copy to you. The reports for all the remediated properties are in the process of being completed. We are currently trying to meet two other, mid February, MDEQ deadlines for other activities on this project and are concentrating on those reports.

I hope that this quick update gives you a good status as to where we are today with our efforts. In the event you have further questions, today or in the future, please feel free to contact me directly at the numbers indicated below, or e-mail me if you prefer.

Best regards,

Anastasia Hamel

Anastasia Hamel
Director Environmental Programs
BorgWarner Inc.
Phone: (810) 497-4503
Fax: (810) 497-4441
e-mail: ahamel@afs.bwauto.com

---------------------- Forwarded by Gretchen Zmitrovich/HW/OPC/DEQ on 02/01/2001 11:26 AM ---------------------------

"Jeff Smith" <JSmith@sheldonlabs.com> on 01/31/2001 09:39:50 AM

To: "'Gretchen_Zmitrovich@deq.state.ms.us'"
<Gretchen_Zmitrovich@deq.state.ms.us>
cc: "'cesorey@bellsouth.net'" <cesorey@bellsouth.net>

Subject: kuhlman/Borg Warner

Gretchen,

Haven't seen you in a while. Hope you had a good Christmas and things are going well. On November 29th I requested a copy of the test results for the
additional testing done in my yard during the remediation process. I have yet to receive anything in writing from anyone. As I had mentioned on the 29th, Robert Martin informed me that there were some fairly high levels under my old boat shed, but I was not informed of the exact levels or of any
other levels found whil moving dirt .

It looks like a majority of the work was done prior to Christmas. Since that time, I have noticed very little or no work at all in my yard. I haven't seen Robert Martin since Christmas. There is still some work that needs to be done to complete my yard. I feel like no effort has been made to update me on the progress, nor has anyone bothered to let me know an estimated completion date.

I would like to have a copy of the test results, as well as information regarding the status of my yard as soon as possible. If I need to obtain this info from someone else, please advise and I will do so.

I appreciate your help.

Jeff Smith

FILE COPY

"Hamel, Anastasia (AFS-Warren)" <AHamel@afs.bwauto.com> on
02/02/2001 11:43:22 AM

To: Gretchen_Zmitrovich@deq.state.ms.us, robmartin001@aol.com
cc:

Subject: RE: Smith Property

Gretchen,

I will respond to Mr. Smith's e-mail but wanted to let you know the following:

1. The removal of contaminated soils has been completed
2. The tree decontamination has been completed
3. The shed has been replaced with a new larger one per Smith's wishes (old sheds disposed)
4. The fence has been replaced with new

What remains to be done is gravel to be brought in to be put by the new shed and finish the rest of the landscaping. As you know, it has been raining very hard and the ground is very wet and soggy. The reason for the delay is that if we start moving heavy vehicles through the medical building with gravel to get it to the Smith yard we would tear the medical building yard to bits. So we are waiting for dry weather to bring in the gravel. Also landscaping is a bit hard to do when the grass is getting moldy already because of the rain. We don't want to keep landscaping over and over.

To my knowledge, Keith Warren from Venture spoke with Mr. Smith earlier this week about what still remained to be done. Jeff Smith however does not indicate so in his e-mail.

As far as the reports for the remediated properties we are getting them completed and will submit them to you. We are trying to get the other two deadlines out of the way that we have right now for the addendum and the work plan for the ditch and have focused on those. We have not forgotten the Smiths or everyone else. Frankly, I have tried to go and see the Smiths in person every time we are in Crystal Springs but either they are not home or it is too late in the evening and with dinner and all I did not want to interrupt them.

I will copy you on the e-mail to Jeff Smith.

Please let me know if you have any questions.

Thanks.

Anastasia

-----Original Message-----

From: Gretchen_Zmitrovich@deq.state.ms.us
[mailto:Gretchen_Zmitrovich@deq.state.ms.us]
Sent: Thursday, February 01, 2001 12:36 PM
To: robmartin001@aol.com
Cc: ahamel@afs.bwauto.com
Subject: kuhlman/Borg Warner

Please reply to this e-mail. I would respond but I am not sure what else needs to be done in his yard or the time frame you are looking at for the completion. Seems like maybe we should get a timeline set for reports to be issued after remediation is done on a particular piece of property. Please cc me on your reply to him. Thanks, Gretchen

---------------------- Forwarded by Gretchen Zmitrovich/HW/OPC/DEQ on 02/01/2001 11:26 AM ---------------------------

"Jeff Smith" <JSmith@sheldonlabs.com> on 01/31/2001 09:39:50 AM

To: "'Gretchen_Zmitrovich@deq.state.ms.us'"
<Gretchen_Zmitrovich@deq.state.ms.us>
cc: "'cesorey@bellsouth.net'" <cesorey@bellsouth.net>

Subject: kuhlman/Borg Warner

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I appreciate your help.

Jeff Smith

FILE COPY

Jeff Smith <JSmith@sheldonlabs.com> on 11/29/2000 08:40:41 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc: Kelli Dowell/Legal/Admin/DEQ@DEQ, Tony Russell/HW/OPC/DEQ@DEQ

Subject: RE: Test Results

Thanks, I hope you're feeling better. I understand from Robert Martin that under the boat shed there was a level of 17ppm. I would like a copy of all results as soon as possible.

Thanks again,
Jeff

-----Original Message-----
From: Gretchen_Zmitrovich@deq.state.ms.us
[mailto:Gretchen_Zmitrovich@deq.state.ms.us]
Sent: Wednesday, November 29, 2000 6:43 AM
To: Jeff Smith
Cc: Kelli_Dowell@deq.state.ms.us; Tony_Russell@deq.state.ms.us
Subject: Re: Test Results

I'm sorry; I thought I responded. I have not seen the test results. I have verbally been informed that the levels were close to 1 so they extended the excavation closer to the house. With the holidays and a slight case of a stomach virus, I have not been in the field lately. I did, however, drive by the site this weekend and it looked like they had backfilled most of the excavation. As far as when a report will be issued, I am unsure. They will be writing the reports on their trips back to their offices. I would say it might take a couple of months to get everything finalized through my office. As soon as I receive the report, I'll let you know.

FILE COPY

Gretchen Zmitrovich
11/29/2000 08:42 AM

To: Jeff Smith <JSmith@sheldonlabs.com> @ INETDEQ
cc: Kelli Dowell/Legal/Admin/DEQ@DEQ, Tony Russell/HW/OPC/DEQ@DEQ

Subject: Re: Test Results

I'm sorry; I thought I responded. I have not seen the test results. I have verbally been informed that the levels were close to 1 so they extended the excavation closer to the house. With the holidays and a slight case of a stomach virus, I have not been in the field lately. I did, however, drive by the site this weekend and it looked like they had backfilled most of the excavation. As far as when a report will be issued, I am unsure. They will be writing the reports on their trips back to their offices. I would say it might take a couple of months to get everything finalized through my office. As soon as I receive the report, I'll let you know.

FILE COPY

Jeff Smith <JSmith@sheldonlabs.com> on 11/27/2000 03:29:00 PM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject: Test Results

Gretchen:

Never received a reply from you in regard to my request a couple of weeks ago for test results. Have they completed the testing and when will I receive the results?

Thanks,

Jeff Smith

Jeff Smith <JSmith@sheldonlabs.com> on 11/13/2000 10:35:50 AM

FILE COPY

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject: Test Results

Gretchen:

I had requested test results a week or so ago, but have not received anything. What's the latest? Obviously, they have found higher levels and more hot spots than anticipated with all the digging they are doing. Can you confirm this?

Please let me know.

Thanks,

Jeff

FILE COPY

Gretchen Zmitrovich
11/08/2000 09:21 AM

To: HERM132BANKHEAD@aol.com @ INETDEQ
cc:

Subject: Re: CONTAMINANTS AT KUHLMAN ELECTRIC CORPORATION (PCBs)

The remediation of the medical clinic has taken longer than expected. They are remediating the medical clinic and 215 N. Jackson at the same time. The last time I spoke to anyone in the field was on Thursday. At that time, they were almost ready to backfill part of the property.

The work plan to remediate the Kuhlman property has not been developed yet. After it is submitted, it will go through a review process here at MDEQ and at EPA. We will review the issue of the Kuhlman workers at that time. As far as the time frame involved, it is hard to estimate. I would assume several months.

HERM132BANKHEAD@aol.com on 11/08/2000 05:07:18 AM

HERM132BANKHEAD@aol.com on 11/08/2000 05:07:18 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject: Re: CONTAMINANTS AT KUHLMAN ELECTRIC CORPORATION (PCBs)

Gretchen:

It's an awful lot of time being spent on the clean up of the property of the clinic next door to Kuhlman and we noticed that trees are removed and carried away.

Does this indicate that the problem is greater than original report and do you have the latest update?

We also notice that the amount of time for the clinic is small compared to the actual time it is going to take to clean up Kuhlman. Do you think that it is going to be safe for the workers to be present at Kuhlman during the cleanup and how long do you think it will take?

Thanks for whatever information you have.

Herman

- att1.htm

FILE COPY

Gretchen Zmitrovich
10/26/2000 08:51 AM

To: Jeff Smith <JSmith@sheldonlabs.com> @ INETDEQ
cc:

Subject: Re:

The first two days of the remediation the crew was waiting on approval from BFI to dispose of the soil at Jackson's landfill. Then two pieces of their equipment broke down. It has taken longer than expected but no one could have anticipated the problems. They are having to go deeper in some areas. Verbally, I was informed that the confirmation samples came back above 1 ppm. I do not have copies yet of this data though.

Jeff Smith <JSmith@sheldonlabs.com> on 10/25/2000 10:29:57 AM

Jeff Smith <JSmith@sheldonlabs.com> on 10/25/2000 10:29:57 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject:

Gretchen:

I've noticed that the remediation crew has been at the clinic longer than expected. I think Robert Martin had told me they would be finished in a couple of days. Do you know what the status is? I also noticed that they have gone pretty deep, too. Do you have the results from the test they did while digging? If so, can you share those?

Thanks,

Jeff Smith

FILE COPY

Jeff Smith <JSmith@sheldonlabs.com> on 10/25/2000 10:29:57 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject:

Gretchen:

I've noticed that the remediation crew has been at the clinic longer than expected. I think Robert Martin had told me they would be finished in a couple of days. Do you know what the status is? I also noticed that they have gone pretty deep, too. Do you have the results from the test they did while digging? If so, can you share those?

Thanks,

Jeff Smith

Tel: (601) 892-4661

Fax: (601) 892-6406

KUHLMAN ELECTRIC
CORPORATION

Instrument Transformers

Power Transformers

101 Kuhlman Drive, Crystal Springs, Mississippi 39059

October 16, 2000

Ms. Kathy Daniel
Browning-Ferris Industries of MS, Inc.
P. O. Box 4736
Greenville, MS 38704-4736

RE: Kuhlman Electric
Waste Profiles for PCB Contaminated Soil

Dear Ms. Daniel:

Per your request, this letter details the source of the soil and the respective tonnage of waste associated with each site.

The contaminated soil that is destined for disposal is the result of remediation activities at various residences and commercial properties surrounding the Kuhlman Electric Corporation facility in Crystal Springs, Mississippi. The source of the PCB contamination is believed to be transformer oil used in the production of electrical transformers at the facility from the mid 1950s to 1973. As shown in the laboratory reports, there are no other contaminants associated with the soil.

The locations are as follows:

Medical Clinic – Lee Avenue	774 tons
Edwards Property – 406 Lee Avenue	446 tons
Garment Shop – 414 Lee Avenue	42 tons
Frazier Property – Lee Avenue	333 tons
Duplex –408/410 Lee Avenue	63 tons
Kellum Property – 412 Lee Avenue	228 tons
Dabney/Smith Property – N. Jackson & Lee Avenue	298 tons

Excavation is currently scheduled to begin during the week of October 16, 2000.

If you have any question or comments, please do not hesitate to call Robert Martin at (828) 669 – 3929.

Sincerely,
Kuhlman Electric Corporation

Alan Thomas
Manager Maintenance / Facility Engineer

Martin & Slagle
GeoEnvironmental Associates LLC

RECEIVED
OCT - 3 2000
DEQ-OPC

October 2, 2000

FILE COPY

Ms. Gretchen Zmitrovich
Office of Pollution Control
Mississippi Department of
Environmental Quality
P.O. Box 10385
Jackson, Mississippi 39289-0385

SUBJECT: Transmittal of Analytical Data for Residences
Kuhlman Electric Corporation
Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

Attached are site plans and spreadsheets showing sampling locations and analytical results from sampling of soils by Ogden Environmental and Energy Services. The soil samples were collected from residential properties surrounding Kuhlman Electric Corporation. Samples were collected from various depths ranging from ground surface to 4 feet below grade and analyzed by an on-site laboratory. Split samples were sent to Paradigm Analytical Laboratories for confirmation of on-site lab results.

The following properties have concentrations of PCB 1260 in excess of 1 mg/kg.

1. Medical Clinic on Lee Avenue
2. Edwards Property at 406 Lee Avenue
3. Garment Shop at 414 Lee Avenue
4. Frazier Property on Lee Avenue
5. Duplex Property at 408/410 Lee Avenue
6. Kellum Property at 412 Lee Avenue
7. Dabney/Smith Property on N. Jackson and Lee Avenue

8. Cooper Property on N. Jackson and Fulgham Avenue

9. Larry and Carol Wright on N. Jackson Avenue

Please contact me at 828-669-3929 if you have any questions or comments concerning these results.

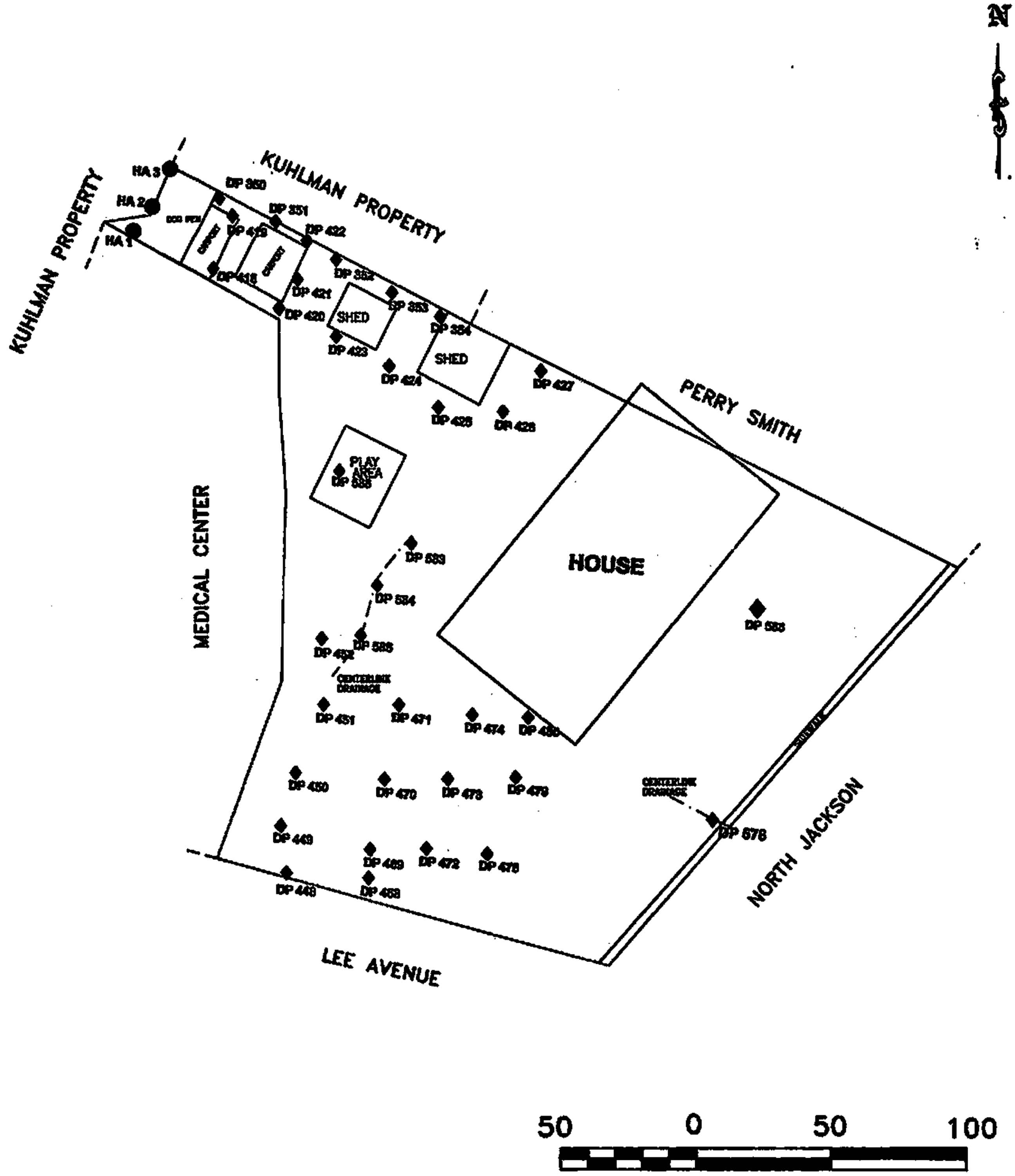
Sincerely,

Martin and Slagle GeoEnvironmental Associates, LLC

Robert Martin

Robert L. Martin, P.G.
Project Manager

Cc: Anastasia Hamel, BorgWarner Inc.



LEGEND

◆	SAMPLE POINT
DP 392	SAMPLE POINT NUMBER
●	SAMPLE POINT
HA 2	SAMPLE POINT NUMBER

1) ALL DISTANCES ARE ESTIMATED
2) THIS MAP WAS PREPARED FROM RECORD MAPS
3) THIS MAP HAS BEEN PREPARED FOR PRESENTATION PURPOSES ONLY

SAMPLE LOCATIONS FOR DABNEY/ SMITH PROPERTY 215 NORTH JACKSON

SCALE: AS SHOWN DR *MDI* CHK *TF* REV *BPS*

PREPARED BY:

OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES

200 SOUTH OLD STATEVILLE ROAD • HUNTERSVILLE, NC 28078 • 704-875-3570

PROJ: *073350000* DATE: *09/24/00* SHEET *1* OF *1*

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-350	DP-350	DP-351	DP-351	DP-352	DP-352	DP-353	DP-353
	Depth	0.5	4	0.5	4	0.5	4	0.5	4
	Lab #	107	108	109	110	111	112	113	114
PCB as 1260		1.8	<0.10	0.33	<0.10	0.55	<0.10	1.8	<0.10
	Collection Date	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00
	Collection Time	16:51	16:53	16:56	16:58	16:59	17:01	17:02	17:04
	Injection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

WIPE SAMPLES (TOTAL UG)									
Target Analyte	Sample #	JSW-1	JSW-2	JSW-3	JSW-4	JSW-5	JSW-6	JSW-7	JSW-8
	Depth								
	Lab #	690	691	692	693	694	695	696	697
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	11:45	11:47	11:48	11:50	11:55	11:58	12:00	12:03
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Notes:
LOCATION:
JSW1: Starboard fender of boat trailer.
JSW2: Port gunwale amidships on john boat.
JSW3: Red wheelbarrow in boat shed.
JSW4: Riding lawnmower, engine cowling, right side.
JSW5: Riding lawnmower, right rear fender.
JSW6: Utility trailer, right rear fender.
JSW7: North wooden fence, between utility trailer and westernmost shed, one foot above ground surface.
JSW8: Western door of hothouse, lower metal panel.
JSW9: Window A/C unit in hothouse.
JSW10: Shop vac in toolshed area of hothouse.
JSW11: Band saw in toolshed.
JSW12: Lower cabinet doors, hothouse.
JSW13: Front fender of toy plastic ATV.
JSW14: Plastic dump truck.
JSW15: Second stair from bottom on swingset leading to slide.
JSW16: Right edge of slide, next to ground level.
JSW17: Rubbermaid grill stand in gazebo.
JSW18: Northernmost patio table on covered back porch.
JSW19: French doors leading into breakfast room.
JSW20: Table section of joined twin chaise lounge/table patio furniture.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)

Target Analyte	Sample #	DP-354	DP-354	HA-1	HA-1	HA-2	HA-2	HA-3	HA-3
	Depth	0.5	4	0.5	4	0.5	4	0.5	1.5
	Lab #	115	116	117	118	119	120	121	122
PCB as 1260		0.19	<0.10	0.19	<0.10	7.2	<0.10	0.17	0.31
	Collection Date	8/17/00	8/17/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00
	Collection Time	17:06	17:09	7:50	8:00	8:08	8:10	8:12	8:15
	Injection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

WIPE SAMPLES (TOTAL UG)

Target Analyte	Sample #	JSW-9	JSW-10	JSW-11	JSW-12	JSW-13	JSW-14	JSW-15	JSW-16
	Depth								
	Lab #	698	699	680	681	682	683	684	685
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	12:08	12:09	12:11	12:13	12:16	12:18	12:19	12:21
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Notes:
LOCATION:

JSW1: Starboard fender of boat trailer.
JSW2: Port gunwale amidships on john boat.
JSW3: Red wheelbarrow in boat shed.
JSW4: Riding lawnmower, engine cowling, right side.
JSW5: Riding lawnmower, right rear fender.
JSW6: Utility trailer, right rear fender.
JSW7: North wooden fence, between utility trailer and westernmost shed, one foot above ground surface.
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JSW10: Shop vac in toolshed area of hothouse.
JSW11: Band saw in toolshed.
JSW12: Lower cabinet doors, hothouse.
JSW13: Front fender of toy plastic ATV.
JSW14: Plastic dump truck.
JSW15: Second stair from bottom on swingset leading to slide.
JSW16: Right edge of slide, next to ground level.
JSW17: Rubbermaid grill stand in gazebo.
JSW18: Northernmost patio table on covered back porch.
JSW19: French doors leading into breakfast room.
JSW20: Table section of joined twin chaise lounge/table patio furniture.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)										
Target Analyte	Sample #	DP-418	DP-418	DP-419	DP-419	DP-420	DP-420	DP-421	DP-421	DP-422
	Depth	0.5	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	257	258	259	260	261	262	263	264	265
PCB as 1260		1.1	<0.10	0.92	<0.10	<0.10	NA	0.55	<0.10	0.19
	Collection Date	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00
	Collection Time	16:25	16:26	16:30	16:32	16:33	16:34	16:35	16:36	16:58
	Injection Date	8/20/00	8/20/00	8/20/00	8/20/00	8/20/00	NA	8/20/00	8/20/00	8/20/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

WIPE SAMPLES (TOTAL UG)										
Target Analyte	Sample #	JSW-17	JSW-18	JSW-19	JSW-20	JSW-21	JSW-22	JSW-23	JSW-24	JSW-25
	Depth									
	Lab #	686	687	688	689	1143	1144	1145	1146	1147
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	9/19/00	9/19/00	9/19/00	9/19/00	9/19/00
	Collection Time	12:26	12:28	12:30	12:32	16:15	16:20	16:20	16:32	16:34
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	9/20/00	9/20/00	9/20/00	9/20/00	9/20/00

Notes:
LOCATION:

JSW1: Starboard fender of boat trailer.
JSW2: Port gunwale amidships on john boat.
JSW3: Red wheelbarrow in boat shed.
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JSW18: Northernmost patio table on covered back porch.
JSW19: French doors leading into breakfast room.
JSW20: Table section of joined twin chaise lounge/table patio furniture.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	**Sample #**	DP-422	DP-423	DP-423	DP-424	DP-424	DP-425	DP-425	DP-426
	Depth	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	266	267	268	269	270	271	272	273
PCB as 1260		<0.10	0.19	<0.10	<0.10	NA	0.12	<0.10	<0.10
	Collection Date	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00
	Collection Time	17:00	17:07	17:09	17:09	17:10	17:15	17:17	17:18
	Injection Date	8/20/00	8/20/00	8/20/00	8/20/00	NA	8/20/00	8/20/00	8/20/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

SOIL SAMPLES (MG/KG)									
Target Analyte	**Sample #**	DP-426	DP-427	DP-427	DP-448	DP-448	DP-449	DP-449	DP-450
	Depth	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	274	275	276	322	323	324	325	326
PCB as 1260		NA	0.14	<0.10	0.69	<0.10	*<8.8 J	<0.10	<0.10
	Collection Date	8/19/00	8/19/00	8/19/00	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00
	Collection Time	17:19	17:21	17:22	8:15	8:17	8:24	8:26	8:28
	Injection Date	NA	8/20/00	8/20/00	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00

Notes:

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	**Sample #**	DP-450	DP-451	DP-451	DP-452	DP-452	DP-468	DP-468	DP-469
	Depth	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	327	328	329	330	331	376	377	378
PCB as 1260		NA	0.23	<0.10	0.80	<0.10	<0.10	NA	<0.10
	Collection Date	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00	8/23/00	8/23/00	8/23/00
	Collection Time	8:29	8:30	8:32	8:36	8:37	10:15	10:17	11:17
	Injection Date	NA	8/22/00	8/22/00	8/22/00	8/22/00	8/23/00	NA	8/23/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

SOIL SAMPLES (MG/KG)									
Target Analyte	**Sample #**	DP-469	DP-470	DP-470	DP-471	DP-471	DP-472	DP-472	DP-473
	Depth	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	379	380	381	382	383	384	385	386
PCB as 1260		NA	0.16	<0.10	0.42	<0.10	<0.10	NA	0.42
	Collection Date	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00
	Collection Time	11:15	11:18	11:19	11:20	11:22	15:15	15:17	15:20
	Injection Date	NA	8/23/00	8/23/00	8/23/00	8/24/00	8/24/00	NA	8/23/00

Notes:

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	**Sample #**	DP-473	DP-474	DP-474	DP-478	DP-478	DP-479	DP-479	DP-480
	Depth	4	0.5	4	0.5 (0.1)	4	0.5 (0.1)	4	0.5 (0.1)
	Lab #	387	388	389	399	400	401	402	403
PCB as 1260		<0.10	0.20	<0.10	0.29	<0.10	0.18	<0.10	<0.10
	Collection Date	8/23/00	8/23/00	8/23/00	8/24/00	8/24/00	8/24/00	8/24/00	8/24/00
	Collection Time	15:21	15:22	15:24	10:55	10:56	10:58	10:59	11:02
	Injection Date	8/24/00	8/23/00	8/24/00	8/24/00	8/25/00	8/24/00	8/24/00	8/24/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

SOIL SAMPLES (MG/KG)									
Target Analyte	**Sample #**	DP-480	DP-583	DP-583	DP-584	DP-584	DP-585	DP-585	DP-586
	Depth	4	0.5 (0.1)	2.5	0.5 (0.1)	2.5	0.5 (0.1)	2.5	0.5 (0.1)
	Lab #	404	704	705	700	701	702	703	706
PCB as 1260		<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	0.32
	Collection Date	8/24/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	11:00	14:20	14:21	14:27	14:26	14:39	14:40	14:39
	Injection Date	8/24/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Notes:

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)								
Target Analyte	Sample #	DP-586	DP-587	DP-587	DP-588	DP-588	DP-423	DP-452
	Depth	2.5	0.5 (0.1)	2.5 *	0.5 (0.1)	2.5	0.1	0.1
	Lab #	707	708	709	710	711	1118	1119
PCB as 1260		<0.10	<0.10	<0.10	<0.10	<0.10	5.0	2.1
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	9/19/00	9/19/00
	Collection Time	14:40	15:15	15:16	15:20	15:21	11:00	10:50
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	9/20/00	9/20/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

Martin & Slagle
GeoEnvironmental Associates LLC

FILE COPY

RECEIVED
OCT - 6 2000
DEQ-OPC

October 5, 2000

Ms. Gretchen Zmitrovich
Office of Pollution Control
Mississippi Department of
Environmental Quality
Office of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385

SUBJECT: Transmittal of Revised Analytical Data Tables for Residences
Kuhlman Electric Corporation
Crystal Springs, Mississippi

Dear Ms. Zmitrovich:

Attached is one complete set of revised spreadsheets showing analytical results from sampling of soils by Ogden Environmental and Energy Services. The tables were revised based on your review and comments. Results for split samples are being prepared into tables and will be forwarded to you by Monday at the latest.

Please contact me at 828-669-3929 if you have any questions or comments concerning these results.

Sincerely,

Martin and Slagle GeoEnvironmental Associates, LLC

Robert Martin

Robert L. Martin, P.G.
Project Manager

Cc: Anastasia Hamel, BorgWarner Inc.

PO Box 1023
Black Mountain, NC 28711

(828) 669-3929
(828) 669-5289 fax

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-350	DP-350	DP-351	DP-351	DP-352	DP-352	DP-353	DP-353
	Depth (ft)	0.5	4	0.5	4	0.5	4	0.5	4
	Lab #	107	108	109	110	111	112	113	114
PCB as 1260		1.8	<0.10	0.33	<0.10	0.55	<0.10	1.6	<0.10
	Collection Date	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00	8/17/00
	Collection Time	16:51	16:53	16:56	16:58	16:59	17:01	17:02	17:04
	Injection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00

WIPE SAMPLES (TOTAL UG)									
Target Analyte	Sample #	JSW-1	JSW-2	JSW-3	JSW-4	JSW-5	JSW-6	JSW-7	JSW-8
	Depth								
	Lab #	690	691	692	693	694	695	696	697
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	11:45	11:47	11:48	11:50	11:55	11:58	12:00	12:03
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Notes:

LOCATION:

JSW1: Starboard fender of boat trailer.
JSW2: Port gunwale amidships on john boat.
JSW3: Red wheelbarrow in boat shed.
JSW4: Riding lawnmower, engine cowling, right side.
JSW5: Riding lawnmower, right rear fender.
JSW6: Utility trailer, right rear fender.
JSW7: North wooden fence, between utility trailer and westernmost shed, one foot above ground surface.
JSW8: Western door of hothouse, lower metal panel.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)

Target Analyte	Sample #	DP-354	DP-354	HA-1	HA-1	HA-2	HA-2	HA-3	HA-3
	Depth (ft)	0.5	4	0.5	4	0.5	4	0.5	1.5
	Lab #	115	116	117	118	119	120	121	122
PCB as 1260		0.19	<0.10	0.19	<0.10	7.2	<0.10	0.17	0.31
	Collection Date	8/17/00	8/17/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00
	Collection Time	17:06	17:09	7:50	8:00	8:08	8:10	8:12	8:15
	Injection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00

WIPE SAMPLES (TOTAL UG)

Target Analyte	Sample #	JSW-9	JSW-10	JSW-11	JSW-12	JSW-13	JSW-14	JSW-15	JSW-16
	Depth								
	Lab #	698	699	680	681	682	683	684	685
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	12:06	12:09	12:11	12:13	12:16	12:18	12:19	12:21
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Notes:

LOCATION:

JSW9: Window A/C unit in hothouse.
JSW10: Shop vac in toolshed area of hothouse.
JSW11: Band saw in toolshed.
JSW12: Lower cabinet doors, hothouse.
JSW13: Front fender of toy plastic ATV.
JSW14: Plastic dump truck.
JSW15: Second stair from bottom on swingset leading to slide.
JSW16: Right edge of slide, next to ground level.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)										
Target Analyte	Sample #	DP-418	DP-418	DP-419	DP-419	DP-420	DP-420	DP-421	DP-421	DP-422
	Depth (ft)	0.5	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	257	258	259	260	261	262	263	264	265
PCB as 1260		1.1	<0.10	0.92	<0.10	<0.10	NA	0.55	<0.10	0.19
	Collection Date	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00
	Collection Time	16:25	16:26	16:30	16:32	16:33	16:34	16:35	16:36	16:58
	Injection Date	8/20/00	8/20/00	8/20/00	8/20/00	8/20/00	NA	8/20/00	8/20/00	8/20/00

Notes:
NA Indicates Sample Not Analyzed

WIPE SAMPLES (TOTAL UG)										
Target Analyte	Sample #	JSW-17	JSW-18	JSW-19	JSW-20	JSW-21	JSW-22	JSW-23	JSW-24	JSW-25
	Depth									
	Lab #	686	687	688	689	1143	1144	1145	1146	1147
PCB as 1260		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	9/19/00	9/19/00	9/19/00	9/19/00	9/19/00
	Collection Time	12:26	12:28	12:30	12:32	16:15	16:20	16:20	16:32	16:34
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	9/20/00	9/20/00	9/20/00	9/20/00	9/20/00

Notes:
LOCATION:

JSW17: Rubbermaid grill stand in gazebo.
JSW18: Northernmost patio table on covered back porch.
JSW19: French doors leading into breakfast room.
JSW20: Table section of joined twin chaise lounge/table patio furniture.
JSW21: Roadside entrance south facing door threshold.
JSW22: West-facing, western-most backdoor threshold, including tile.
JSW23: North facing adjacent door, tile and threshold.
JSW24: East-facing door, carport entrance.
JSW25: TV screen in bedroom.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-422	DP-423	DP-423	DP-424	DP-424	DP-425	DP-425	DP-426
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	266	267	268	269	270	271	272	273
PCB as 1260		<0.10	0.19	<0.10	<0.10	NA	0.12	<0.10	<0.10
	Collection Date	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00	8/19/00
	Collection Time	17:00	17:07	17:09	17:09	17:10	17:15	17:17	17:18
	Injection Date	8/20/00	8/20/00	8/20/00	8/20/00	NA	8/20/00	8/20/00	8/20/00

Notes:
NA Indicates Sample Not Analyzed

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-426	DP-427	DP-427	DP-448	DP-448	DP-449	DP-449	DP-450
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	274	275	276	322	323	324	325	326
PCB as 1260		NA	0.14	<0.10	0.69	<0.10	*<8.8 J	<0.10	<0.10
	Collection Date	8/19/00	8/19/00	8/19/00	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00
	Collection Time	17:19	17:21	17:22	8:15	8:17	8:24	8:25	8:28
	Injection Date	NA	8/20/00	8/20/00	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00

Notes:
NA Indicates Sample Not Analyzed
* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	**Sample #**	DP-450	DP-451	DP-451	DP-452	DP-452	DP-468	DP-468	DP-469
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	327	328	329	330	331	376	377	378
PCB as 1260		NA	0.23	<0.10	0.80	<0.10	<0.10	NA	<0.10
	Collection Date	8/22/00	8/22/00	8/22/00	8/22/00	8/22/00	8/23/00	8/23/00	8/23/00
	Collection Time	8:29	8:30	8:32	8:36	8:37	10:16	10:17	11:17
	Injection Date	NA	8/22/00	8/22/00	8/22/00	8/22/00	8/23/00	NA	8/23/00

Notes:
NA Indicates Sample Not Analyzed

SOIL SAMPLES (MG/KG)									
Target Analyte	**Sample #**	DP-469	DP-470	DP-470	DP-471	DP-471	DP-472	DP-472	DP-473
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	379	380	381	382	383	384	385	386
PCB as 1260		NA	0.16	<0.10	0.42	<0.10	<0.10	NA	0.42
	Collection Date	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00	8/23/00
	Collection Time	11:15	11:18	11:19	11:20	11:22	15:16	15:17	15:20
	Injection Date	NA	8/23/00	8/23/00	8/23/00	8/24/00	8/24/00	NA	8/23/00

Notes:
NA Indicates Sample Not Analyzed

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-473	DP-474	DP-474	DP-478	DP-478	DP-479	DP-479	DP-480
	Depth (ft)	4	0.5	4	0.5	4	0.5	4	0.5
	Lab #	387	388	389	399	400	401	402	403
PCB as 1260		<0.10	0.20	<0.10	0.29	<0.10	0.18	<0.10	<0.10
	Collection Date	8/23/00	8/23/00	8/23/00	8/24/00	8/24/00	8/24/00	8/24/00	8/24/00
	Collection Time	15:21	15:22	15:24	10:55	10:56	10:58	10:59	11:02
	Injection Date	8/24/00	8/23/00	8/24/00	8/24/00	8/25/00	8/24/00	8/24/00	8/24/00

SOIL SAMPLES (MG/KG)									
Target Analyte	Sample #	DP-480	DP-583	DP-583	DP-584	DP-584	DP-585	DP-585	DP-586
	Depth (ft)	4	0.5	2.5	0.5	2.5	0.5	2.5	0.5
	Lab #	404	704	705	700	701	702	703	706
PCB as 1260		<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	0.32
	Collection Date	8/24/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00
	Collection Time	11:00	14:20	14:21	14:27	14:26	14:39	14:40	14:39
	Injection Date	8/24/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00

Soil and Wipe Sample Results
Dabney / Smith Property
215 North Jackson
Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)								
Target Analyte	**Sample #**	DP-586	DP-587	DP-587	DP-588	DP-588	DP-423	DP-452
	Depth (ft)	2.5	0.5	2.5	0.5 (0.1)	2.5	0.1	0.1
	Lab #	707	708	709	710	711	1118	1119
PCB as 1260		<0.10	<0.10	<0.10	<0.10	<0.10	5.0	2.1
	Collection Date	8/29/00	8/29/00	8/29/00	8/29/00	8/29/00	9/19/00	9/19/00
	Collection Time	14:40	15:15	15:16	15:20	15:21	11:00	10:50
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00	8/30/00	9/20/00	9/20/00

OGDEN *ENVIRONMENTAL AND ENGINEERING SERVICES, INC.* **FILE COPY**

200 S. Old Statesville Road
Huntersville, NC 28078
704 875 3570
Fax 704 875 8718
Mailing Address
P.O. Box 3142
Huntersville, NC 28070

RECEIVED
OCT 6 2000
DEQ-OPC

October 5, 2000

Ms. Gretchen Zmitrovich
Mississippi Dept. of Enviromental Quality
101 W. Capitol St.
Jackson, MS 39201

RE: CADD Drawings

Dear Ms. Zmitrovich:

Enclosed are your copies of corrected Autocad drawings for the Kellum property, the Dabney property and the Cooper property.

Corrections made were as follows. On the Kellum property map, the sampling point labeled as DP519 was corrected to read DP529. On the Dabney property map, the point originally labeled as DP578 was corrected to read DP587. On the Cooper property map, Fulgham was misspelled on the original.

I am forwarding copies of the corrected maps to both Martin & Slagle as well as Ms. Anastasia Hamel of BorgWarner Inc.

Any spreadsheet corrections will come from Martin & Slagle.

If you have any questions or comments, please call.

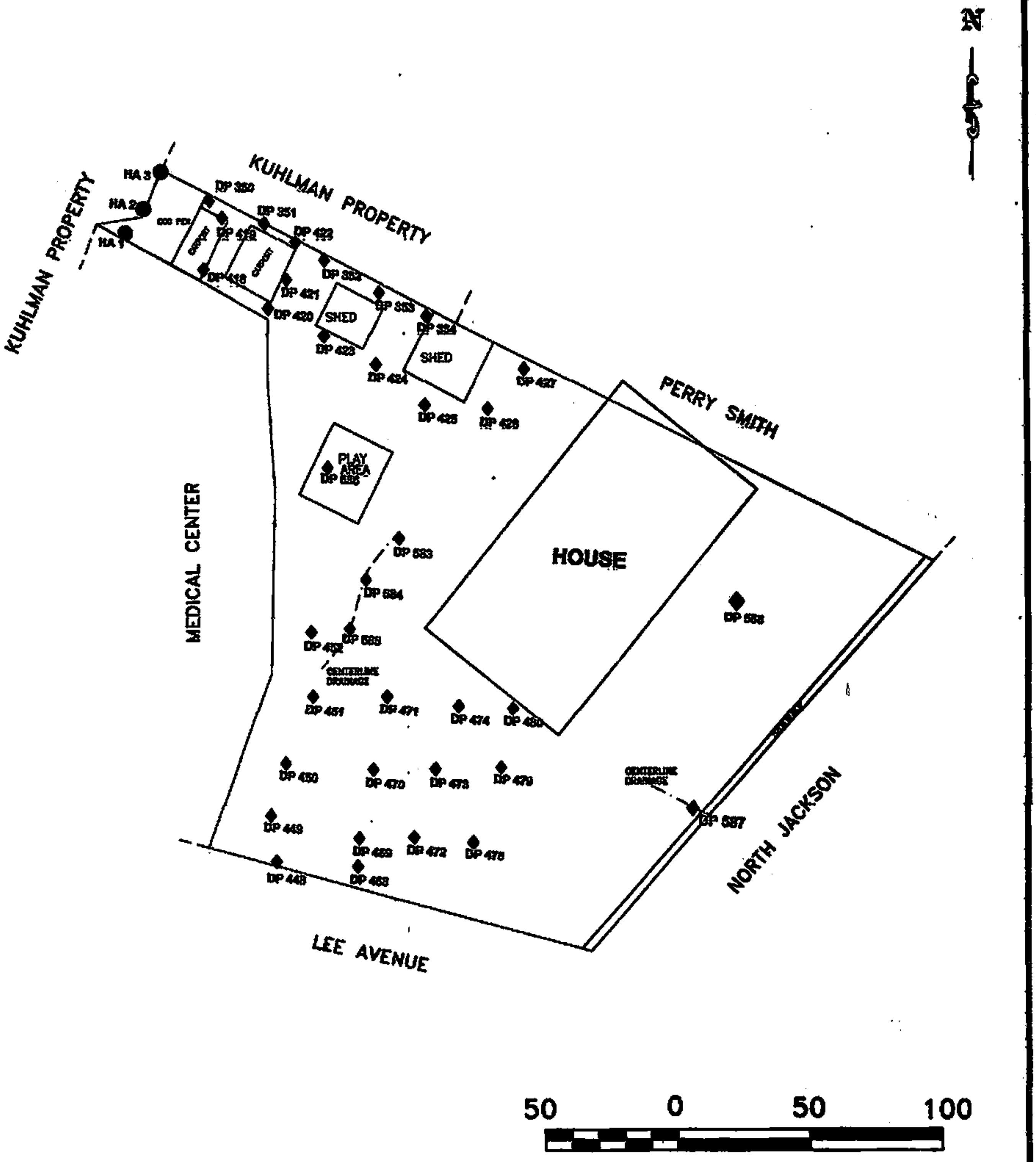
Sincerely,

OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES, INC.

Timothy J. Fitzpatrick
Senior Environmental Chemist

Enclosure

Cc: Martin & Slagle
Ms. Anastasia Hamel



LEGEND

◆	SAMPLE POINT
DP 392	SAMPLE POINT NUMBER
●	SAMPLE POINT
HA 2	SAMPLE POINT NUMBER

1) ALL DISTANCES ARE ESTIMATED
2) THIS MAP WAS PREPARED FROM RECORD MAPS
3) THIS MAP HAS BEEN PREPARED FOR PRESENTATION PURPOSES ONLY

SAMPLE LOCATIONS FOR DABNEY/ SMITH PROPERTY 215 NORTH JACKSON

SCALE: AS SHOWN	DR *MDI*	CHK *TF*	REV *BPS*

PREPARED BY:

OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES

200 SOUTH OLD STATESVILLE ROAD • HUNTERSVILLE, NC 28078 • 704-875-3370

PROJ: *073350000*	DATE: *09/24/00*	SHEET *1* OF *1*

FILE COPY

Jeff Smith <JSmith@sheldonlabs.com> on 09/14/2000 12:28:21 PM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject: RE: Testing @ 215 N. Jackson St., Crystal Springs (Jeff Smith_

Thanks,

Jeff

-----Original Message-----
From: Gretchen_Zmitrovich@deq.state.ms.us
[mailto:Gretchen_Zmitrovich@deq.state.ms.us]
Sent: Thursday, September 14, 2000 10:02 AM
To: Jeff Smith
Subject: RE: Testing @ 215 N. Jackson St., Crystal Springs (Jeff Smith_

I gave you some inaccurate information earlier. I took the sample results that I e-mailed to you from the field maps and not from the table of data. Apparently, there is a mistake on the map (Tim Fitzpatrick of Ogden caught the error and just telephoned me). The sample taken in the play area was actually 0.32 ppm not non-detect. Sorry for the inconvenience.

FILE COPY

Jeff Smith <JSmith@sheldonlabs.com> on 09/14/2000 08:38:48 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject: Testing @ 215 N. Jackson St., Crystal Springs (Jeff Smith_

Gretchen:

Tim Fitzpatrick tested the additional areas in my yard that I had requested. However, I have not received any hard copy of the results, as well as the map I requested showing the levels of all test results in my yard. I also don't think the swipe testing has been done in the yard and I know they have not tested inside the house.

Just wondering if you could update me on what is happening.

Thanks,

Jeff Smith

FILE COPY

Jeff Smith <JSmith@sheldonlabs.com> on 09/14/2000 10:07:44 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject: RE: Testing @ 215 N. Jackson St., Crystal Springs (Jeff Smith_

Thank you for the information.

-Jeff

-----Original Message-----
From: Gretchen_Zmitrovich@deq.state.ms.us
[mailto:Gretchen_Zmitrovich@deq.state.ms.us]
Sent: Thursday, September 14, 2000 7:09 AM
To: Jeff Smith
Subject: Re: Testing @ 215 N. Jackson St., Crystal Springs (Jeff Smith_

I have received a copy of the results from the additional sampling. I believe Tim took 6 additional samples (1 in play area, 3 between house and play area, 1 in front yard, and 1 beside driveway). All of these samples were non-detect. Also, wipe samples were taken in the yard (I am not sure where at this point) and all wipe samples were non-detect. They have not tested inside the house but are in the field this week and should contact you in the next week or so to sample in the house. I spoke to Tim yesterday and he is working on getting the CADD maps done of everyone's yards so, we can give you an official report of the work. I don't have a date on when they will be ready but I assume in a week or so.

I don't know if you have heard that MDEQ has scheduled a public meeting at the Chautauqua Park Visitors Center at 7:00 pm on Thursday the 21st. Representatives from MDEQ and the Health Dept will be there to answer questions and share the information we have learned about the site with the public.

Jeff Smith <JSmith@sheldonlabs.com> on 09/14/2000 08:38:48 AM

FILE COPY

Jeff Smith <JSmith@sheldonlabs.com> on 08/29/2000 09:04:11 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject: RE: Testing at 215 N. Jackson St.-Crystal Springs (Jeff Smith)

Gretchen:

Thank you for the information. I assume that Robert Martin will consider my request for additional testing in the yard. In the meantime, I'll be waiting to hear from you regarding the interior and exterior swipe testing.

I appreciate your help.

Jeff

-----Original Message-----
From: Gretchen_Zmitrovich@deq.state.ms.us
[mailto:Gretchen_Zmitrovich@deq.state.ms.us]
Sent: Tuesday, August 29, 2000 6:47 AM
To: Jeff Smith
Subject: Re: Testing at 215 N. Jackson St.-Crystal Springs (Jeff Smith)

I have forwarded your comments to Robert Martin at Ogden. They are currently working on a procedure to sample inside the house. The solvent they generally use on exterior surfaces may damage the materials inside, so they are determining how to do it correctly. As far as the map and data, Tim Fitzpatrick is leaving Crystal Springs on Friday. He will be in the office the following week preparing the reports for each house. The information should be available shortly after that for you. Let me know if I can help with anything else.
Gretchen

FILE COPY

Jeff Smith <JSmith@sheldonlabs.com> on 08/28/2000 09:26:33 AM

To: Gretchen Zmitrovich/HW/OPC/DEQ@DEQ
cc:

Subject: Testing at 215 N. Jackson St.-Crystal Springs (Jeff Smith)

Gretchen:

I've been in the process of making a list of request and expectations for the remediation work to be done in my yard. At our last meeting you had mentioned that I would receive a copy of the plot showing the results of the various tested areas in my yard. I haven't received anything yet and was wanting an update. I also need to know what the results were from the side (south-side by Lee Avenue) of my yard which was tested last Wednesday.

Before we proceed with any remediation, I am requesting the following:

1) That additional tests be done in my yard. I would like for Ogden to test under my house and I also would like at least three other areas to be tested in my yard. One is an area right behind my house where most of the water runs off and the other is near the front yard where water runs out to North Jackson Street. The final area is in my hot house, which is attached to my work shop. It has a dirt floor and can be tested.
2) I would like for swipe testing to be performed in my backyard on all pieces of equipment, playground toys, etc. I would like for swipe testing to be performed in my workshop and storage building. I would also like swipe testing to be performed inside my house.
3) I would like a copy of ALL test results pertaining to my yard. (This includes the actual paperwork showing results of the tests that I assume were performed at the mobile lab at Kuhlman, as well as the map of my yard showing the various locations of the tests and the contamination levels found at each test site.)

Once the additional testing is complete and I have received all the requested test results, I will then be prepared to discuss the remediation process.

If you have any questions please feel free to call me at work (892-2731) or home (892-2175).

Thank you for your assistance.

Sincerely,

Jeff Smith

FILE COPY

OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES

Mailing Address: PO Box 3142, Huntersville, NC 28070

200 South Old Statesville Road
Huntersville, NC 28078
(704) 875-3570
(704) 875-8718 Fax

FACSIMILE TRANSMITTAL

PLEASE DELIVER THE FOLLOWING PAGES TO:

Name: Gretchen Zmitrovich

Firm: MDEQ

CC:

Fax No. 601 961 5300

Total number of pages including this cover page: 5

If all pages are not received, please notify the sender immediately.

Sender: Tim Fitzpatrick **Date:** 9/5/00

Gretchen:

revised maps follow. Thanks,

Tim

( ) Originals to follow. ( ) This is the only copy you will receive.

OGDEN

Job Name:

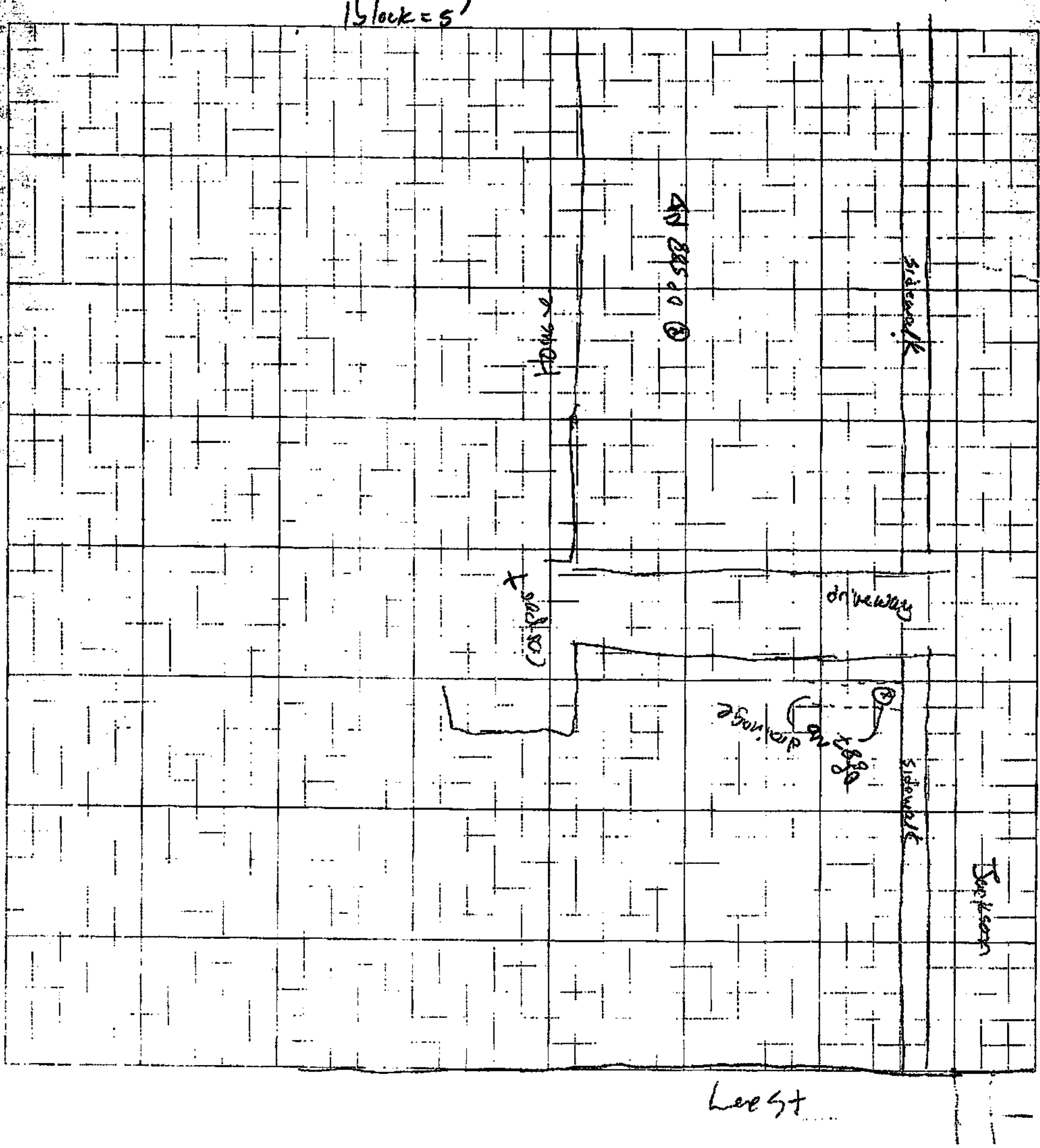
Job Number:

Title: Dabney Yard - East

Computed by: TSF Checked by:

Date: 8/29 Sheet: ~~19~~ 20 Of:

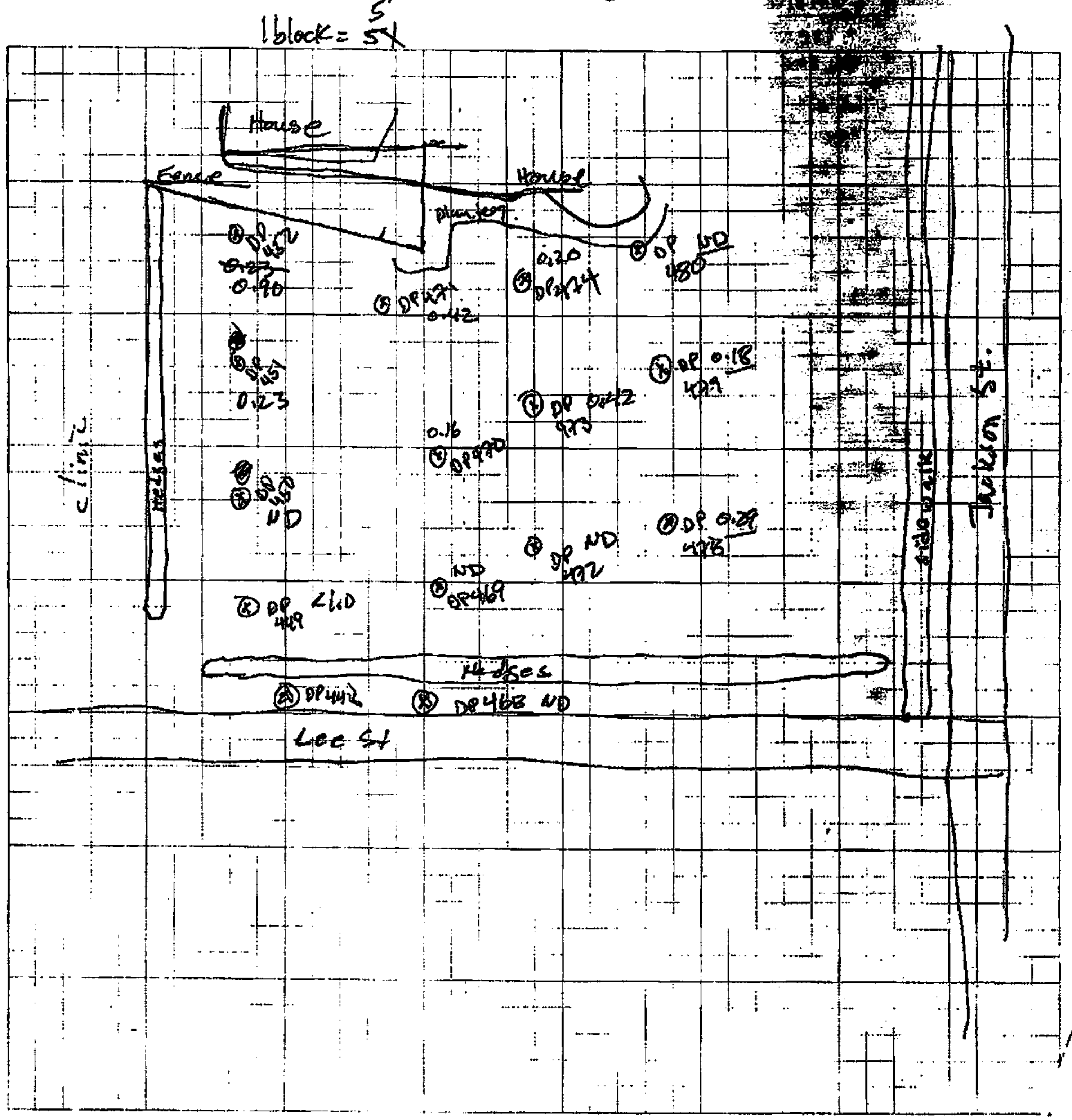
1 block = 5'



OGDEN

Job Name:
Job Number:
Title: Dabney yar[illegible]
Computed by:
Date: 8/23/00

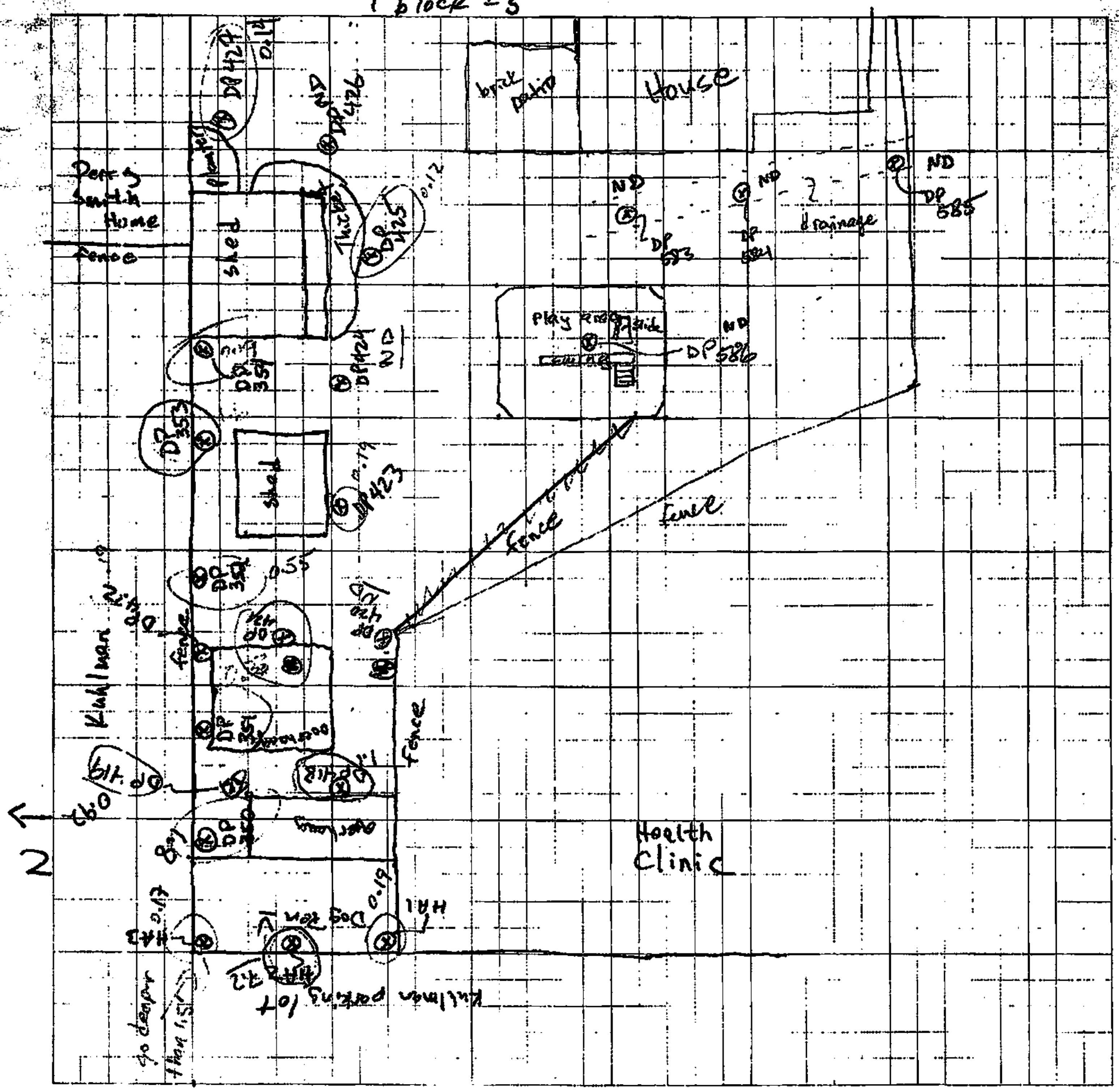
1block = 5' 5X



OGDEN

Job Name: Crystal Springs
Job Number:
Title: Dabney Home
Computed by: TJF Checked by:
Date: 8-17-00 Sheet: 9 Of: 11

1 block = 5'



OGDEN

Job Name:

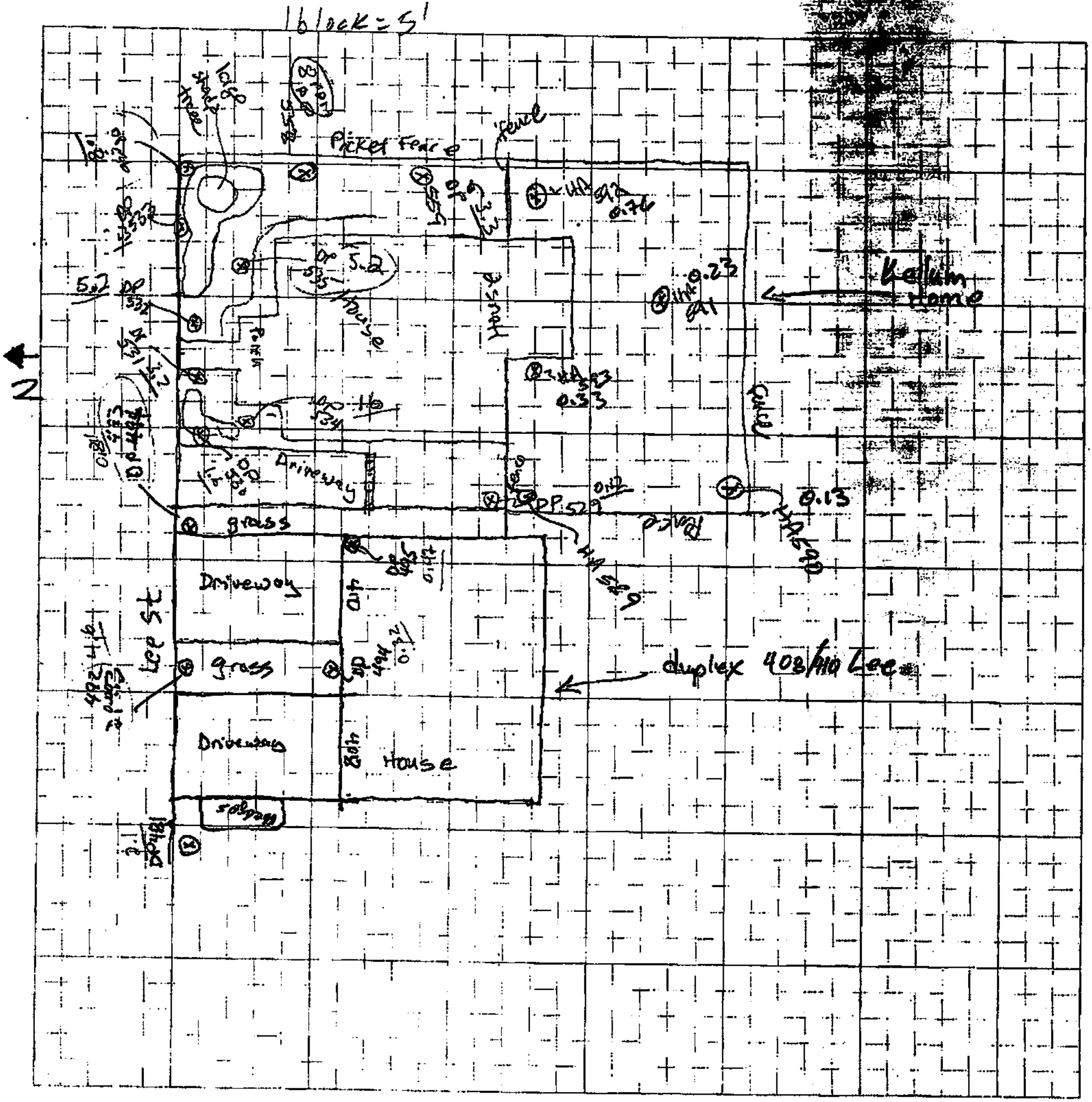
Job Number:

Title: 408/410 Le

Computed by: DF

Date: 8/24/00

1 block = 5'



FILE COPY

19 pages w/cover

To:
Gretchen Zmitrovich
MDEQ

From:
Tim Fitzpatrick
Ogden Environmental

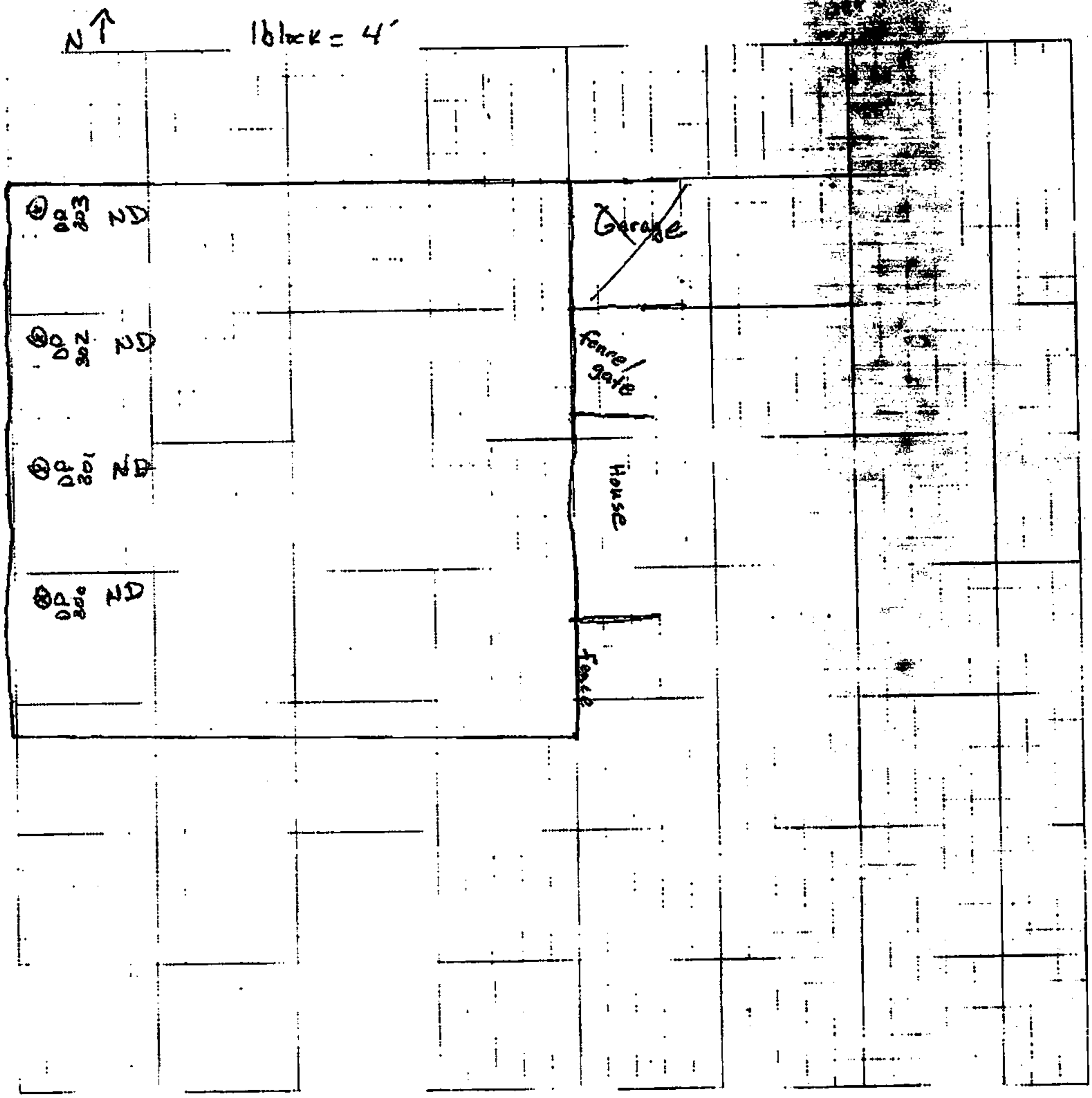
Gretchen: following are my field maps - I hope you can read them! Data will follow shortly. Please call after you receive this fax.

Thanks,

Tim

OGDEN

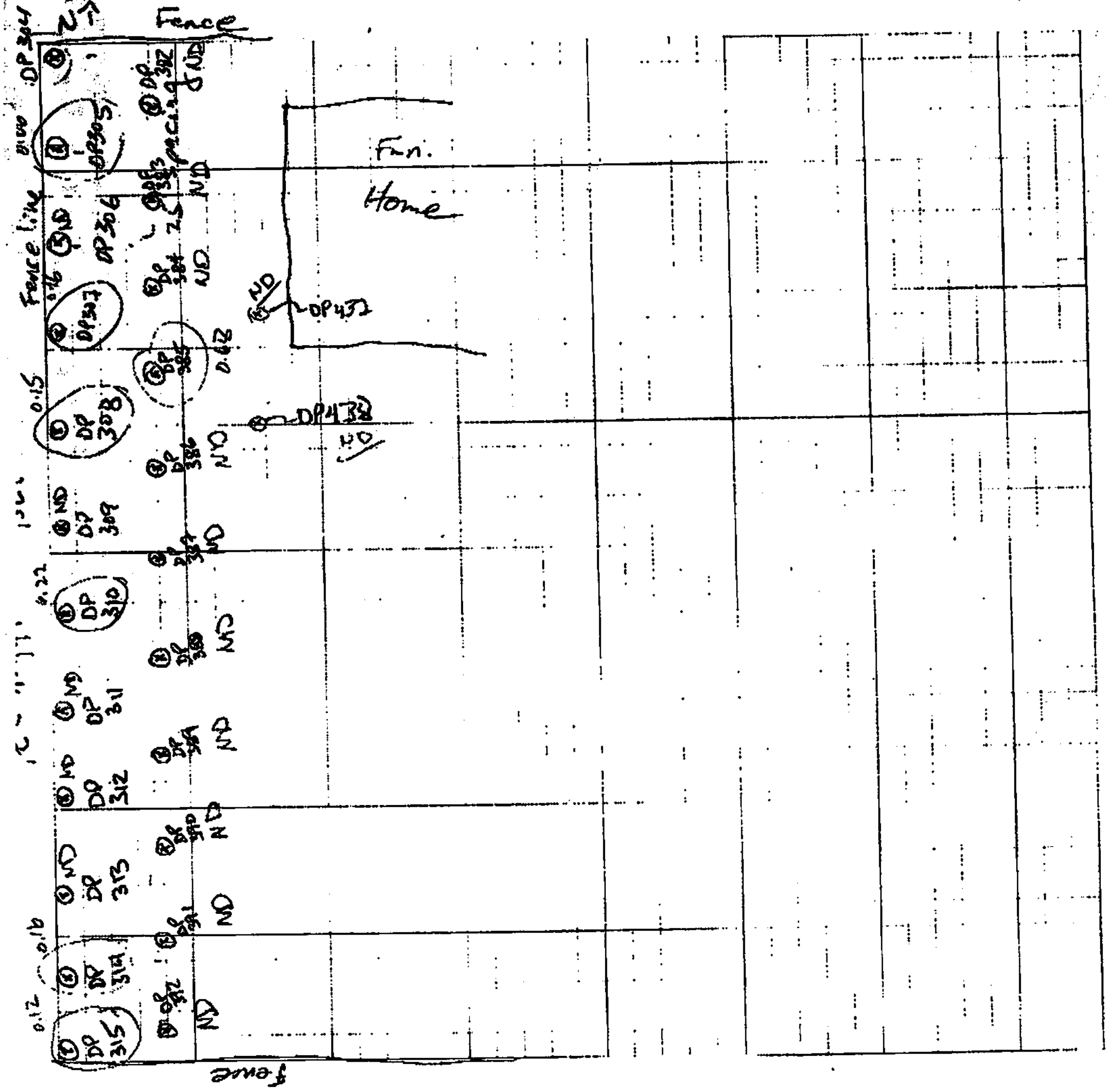
Job Name: Crystal Springs
Job Number:
Title: Sonny Reeves ba[illegible] 405 Jackson
Computed by:
Checked by: [illegible]
Date: 2/16/2000
Sheet [illegible] 11



OGDEN

~~280~~
~~200~~
~~7~~

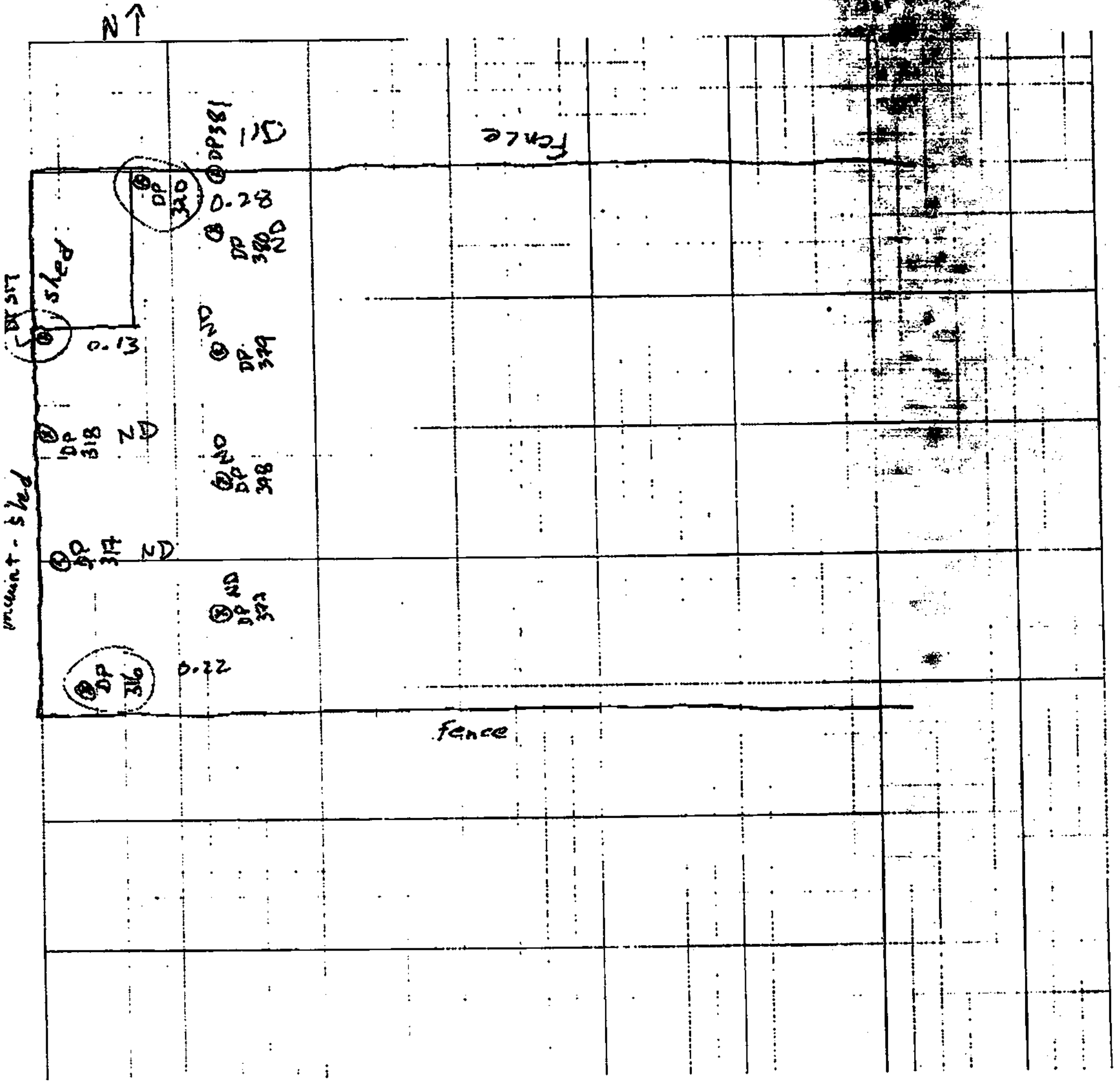
Job Name: Crystal Springs
Job Number:
Title: Stringer Funeral Home
Computed by: Checked by:
Date: 8-16-2000 Sheet: 2 Of: 11



OGDEN

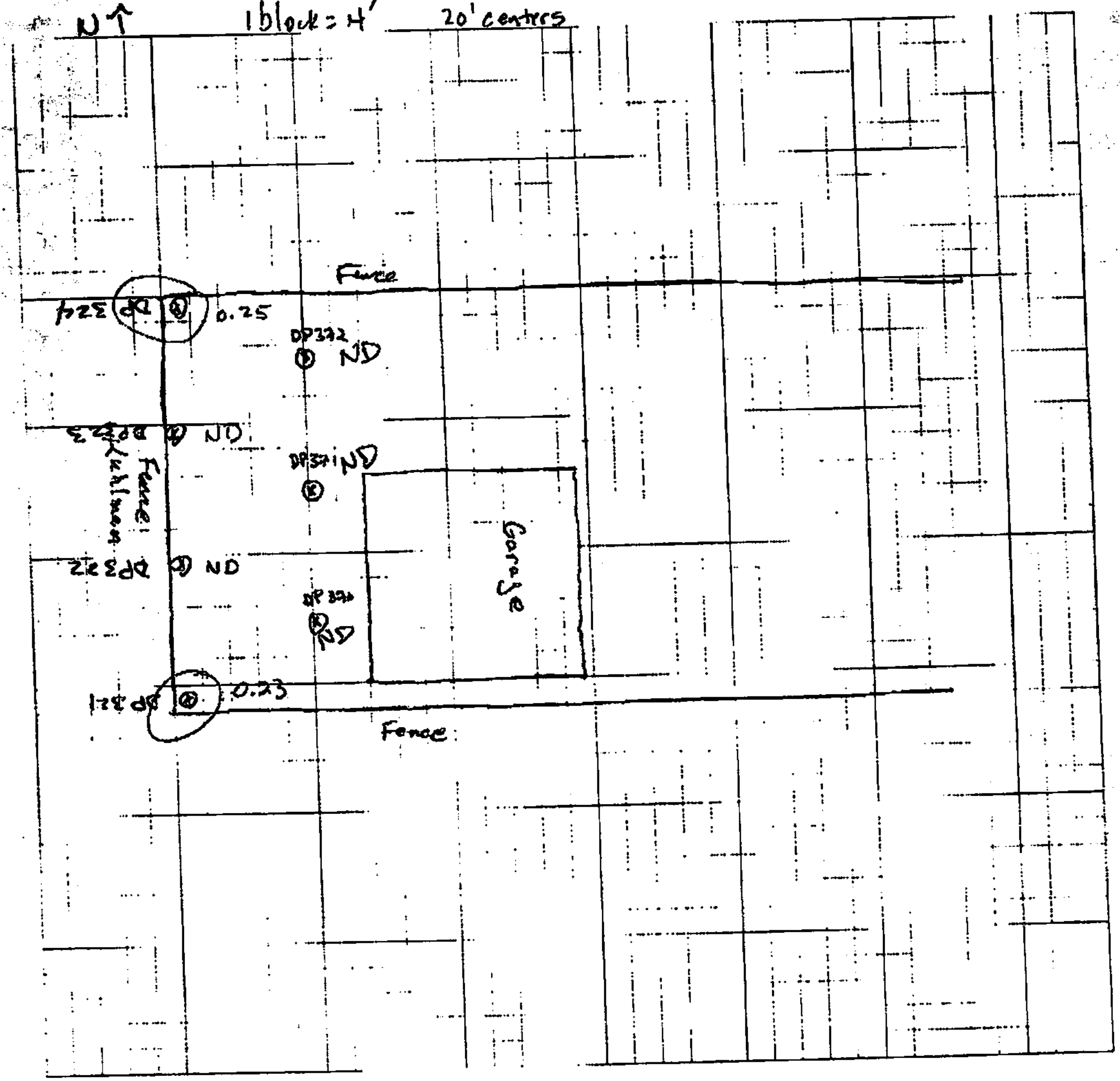
Job Name: Crystal Spri[illegible]
Job Number:
Title: 401 N. Jackson [illegible]ight
Computed by:
Che[illegible]
Date: 8-16-2000
Shee[illegible] 11

1 block = 4'



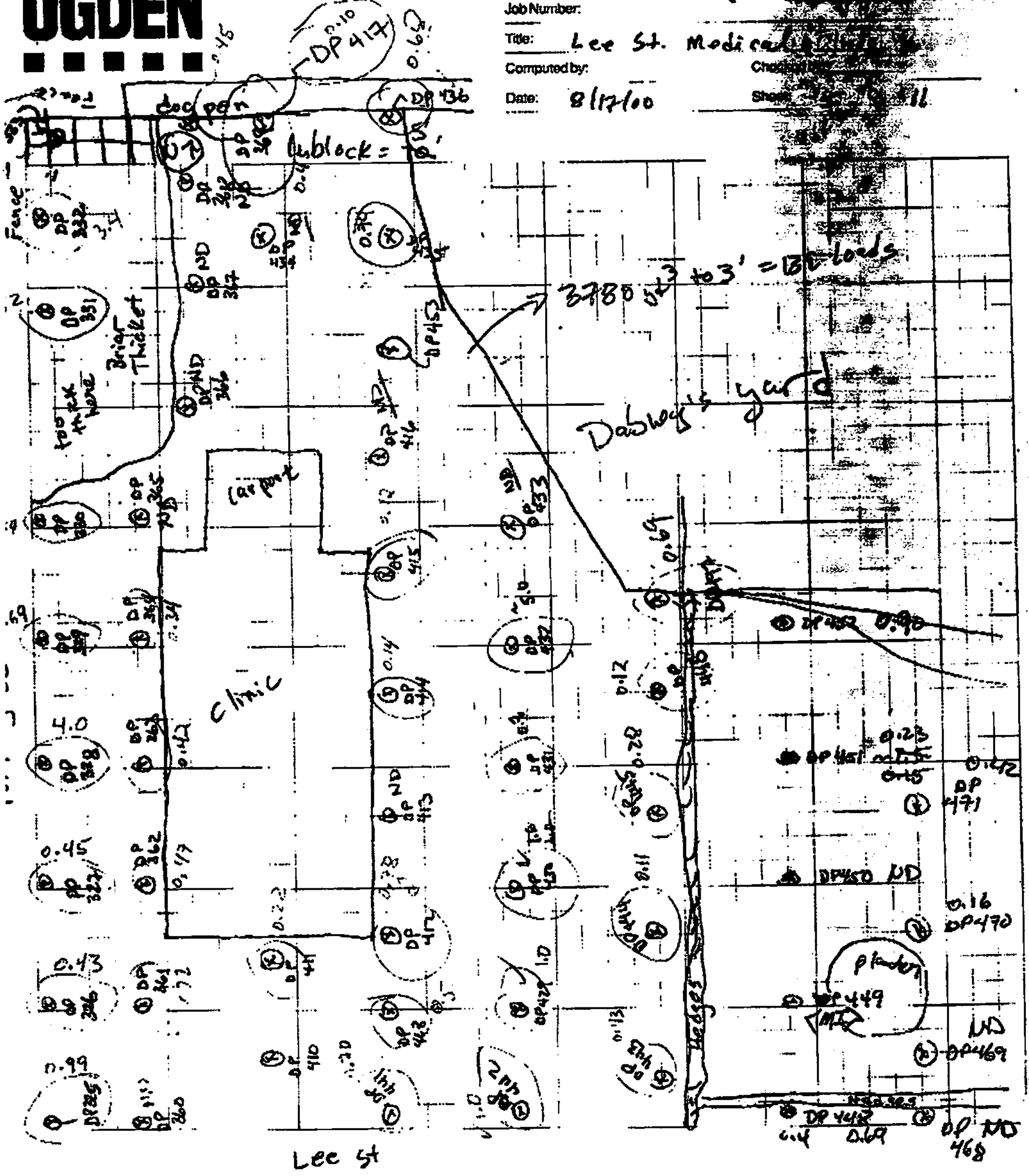
OGDEN

Job Name: Crystal Springs
Job Number:
Title: 407 N. Jackson Louie Lang
Computed by:
Checked by:
Date: 8-16-00
Sheet: 4 Of: 11



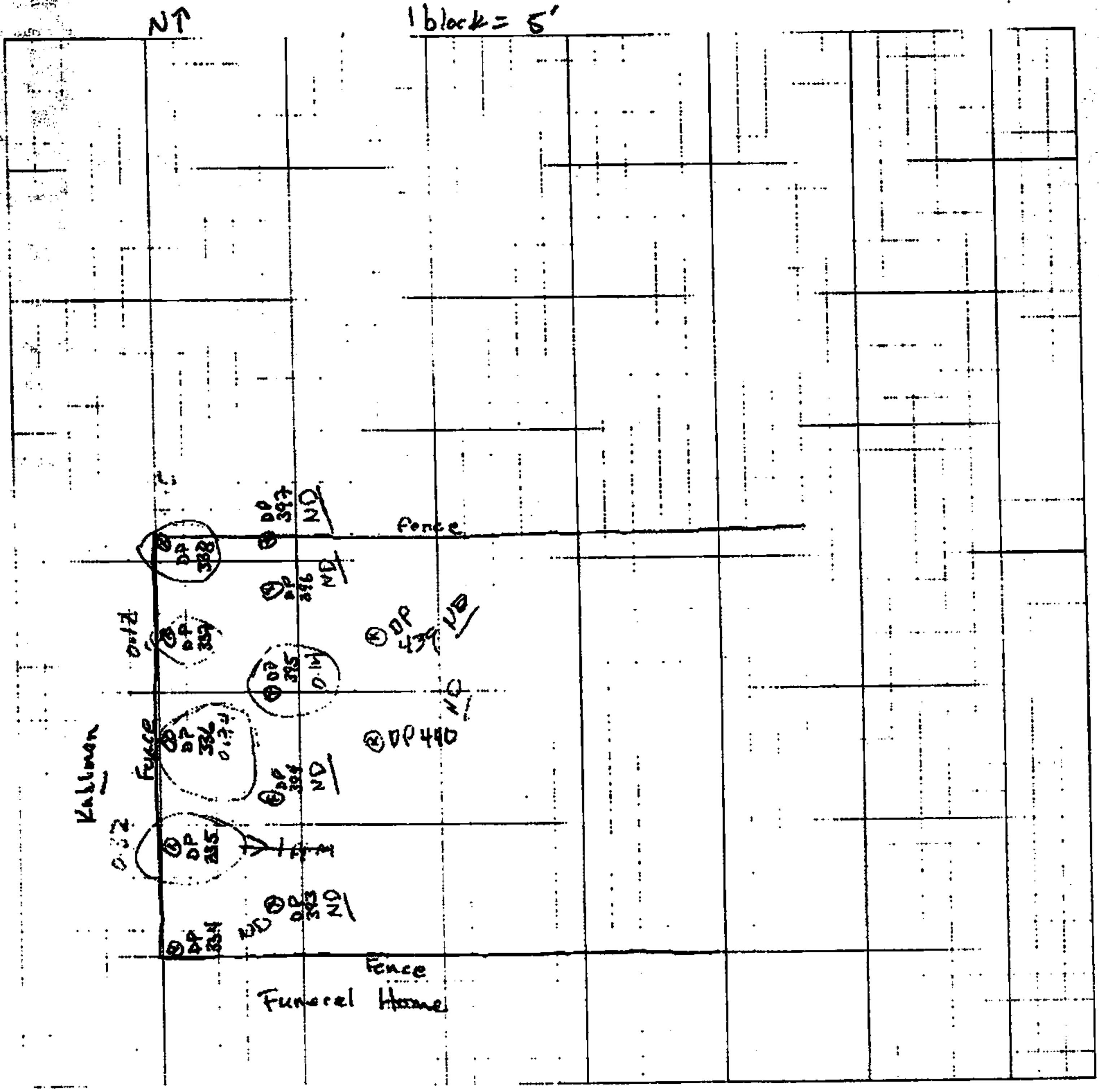
OGDEN

Job Name: Crystal Springs
Job Number:
Title: Lee St. Medical [illegible]
Computed by:
Checked by: [illegible]
Date: 8/17/00
Sheet: [illegible] 11



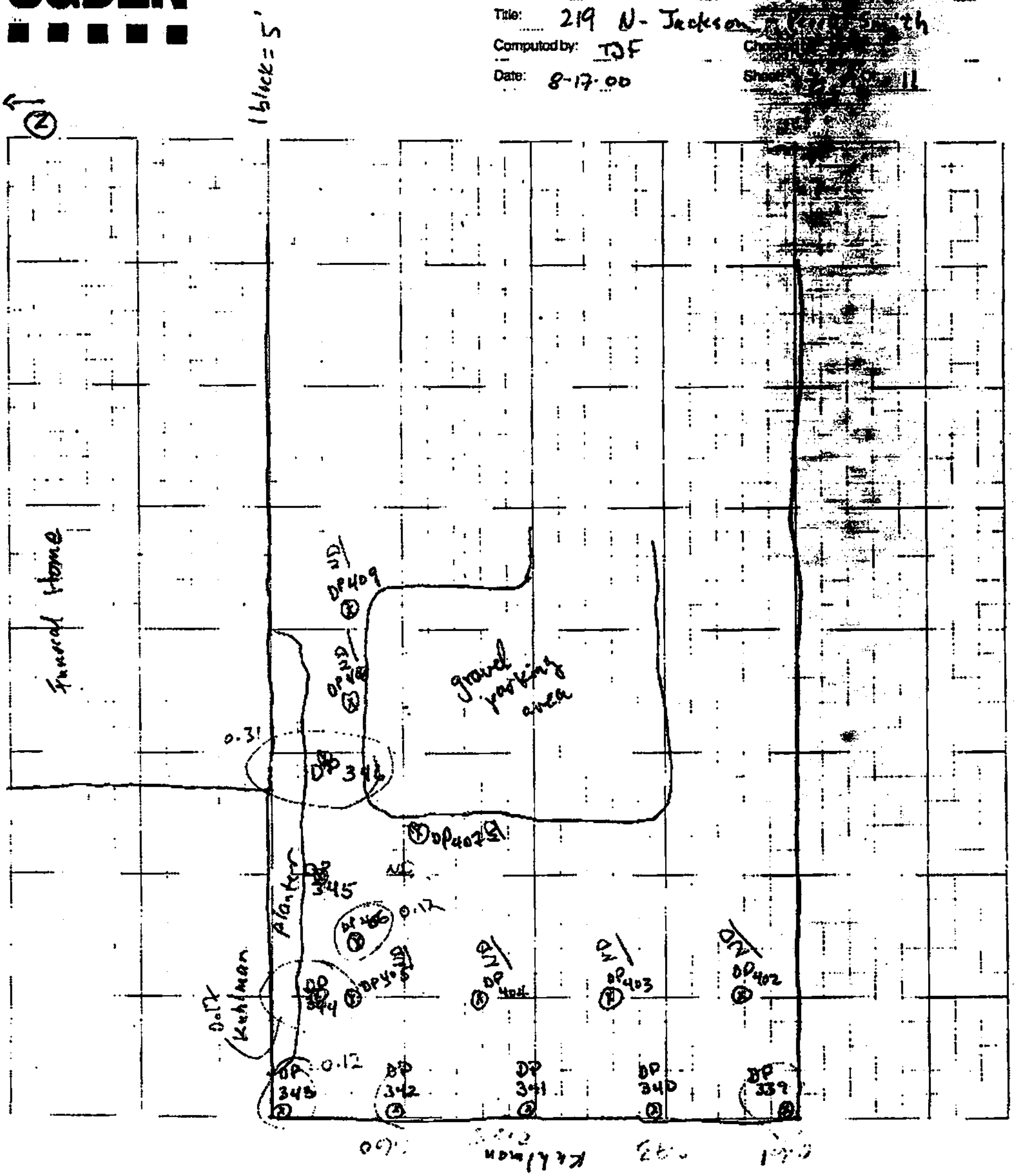
OGDEN

Job Name: Crystal Springs
Job Number:
Title: 303 N. Jackson (Stringer)
Computed by:
Checked by:
Date: 8-17-00
Sheet: 6 Of: 11



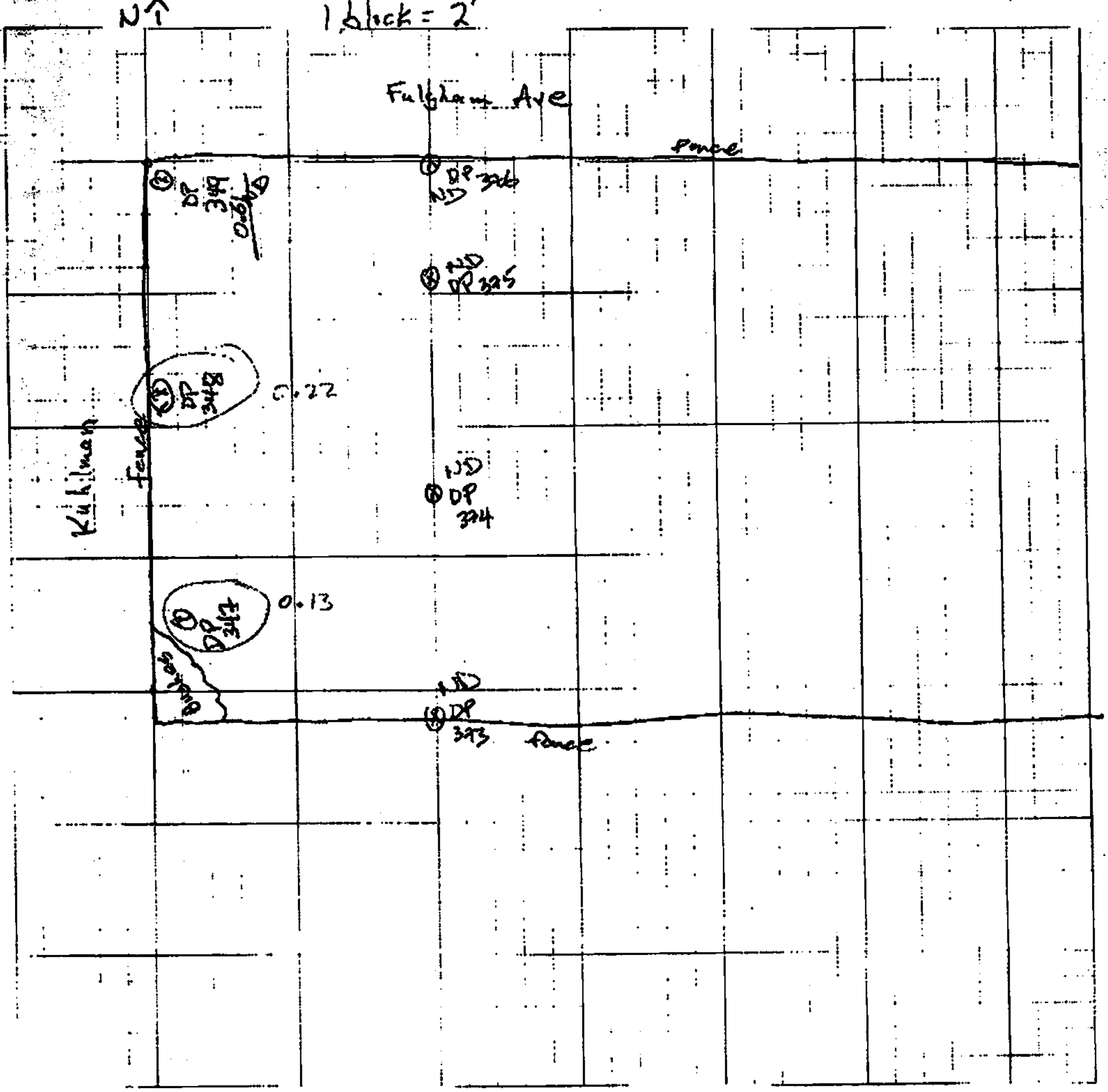
OGDEN

Job Name: Crystal Spr[illegible]
Job Number:
Title: 219 N- Jackson [illegible]ith
Computed by: TJF
Ch[illegible]
Date: 8-17-00
Sh[illegible] 11



OGDEN

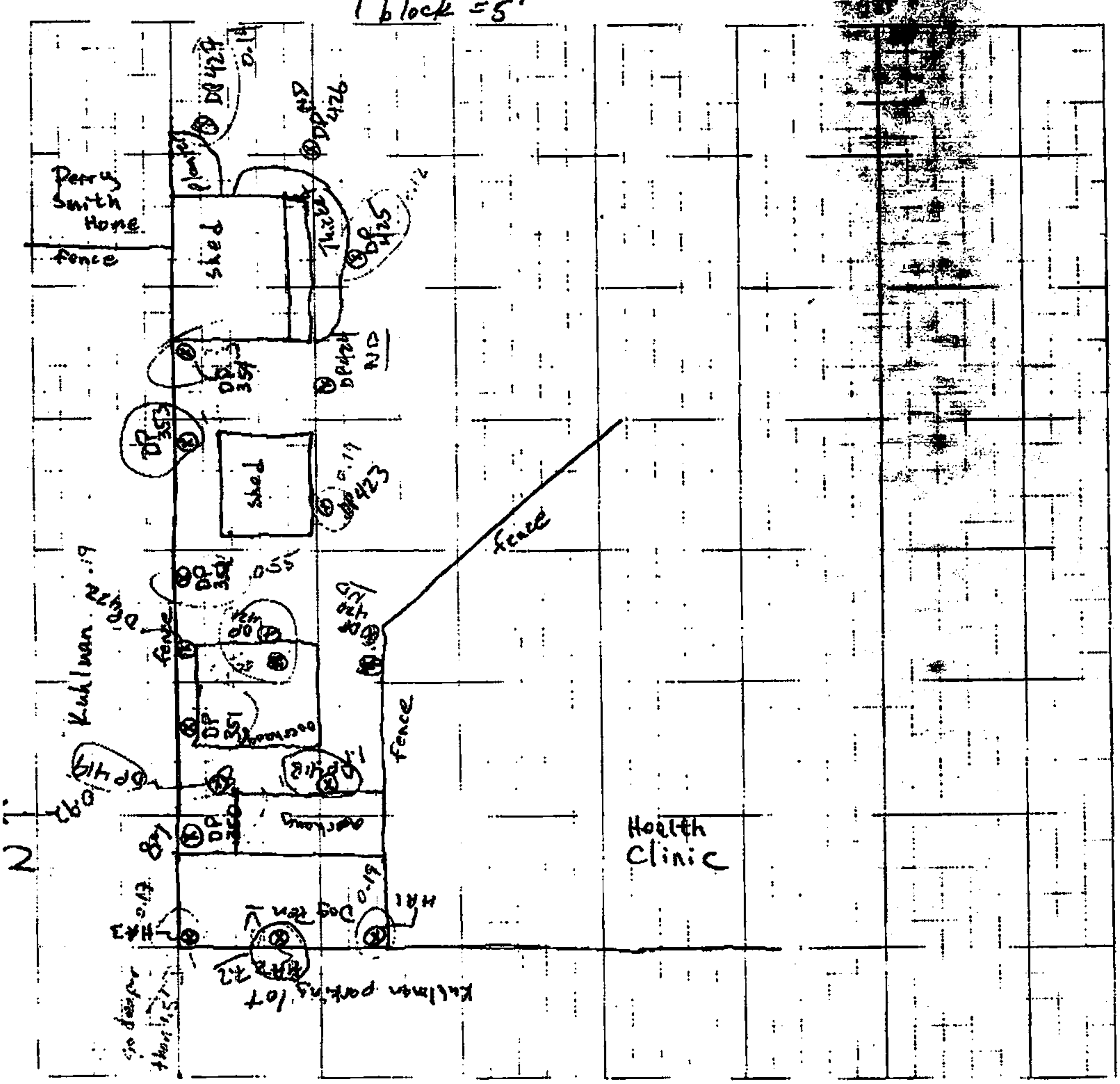
Job Name: Crystal Springs
Job Number:
Title: 409 N. Jackson (Amy Cooper)
Computed by: DE
Checked by:
Date: 8-17-00
Sheet: 8 Of: 11



OGDEN

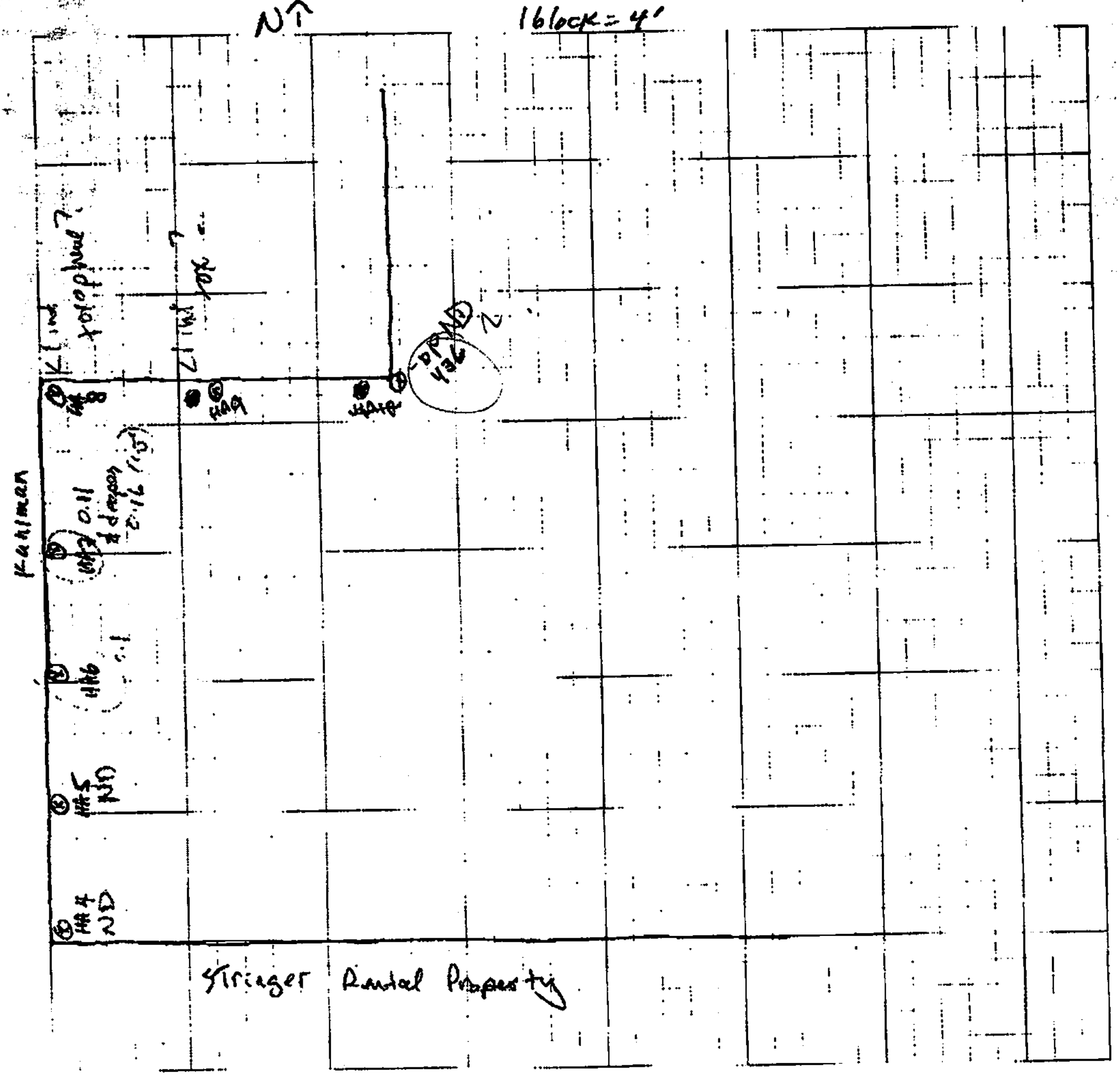
Job Name: Crystal Springs
Job Number:
Title: Dabney Home
Computed by: TJF
Date: 8-17-00
Sheet of 11

1 block = 5'



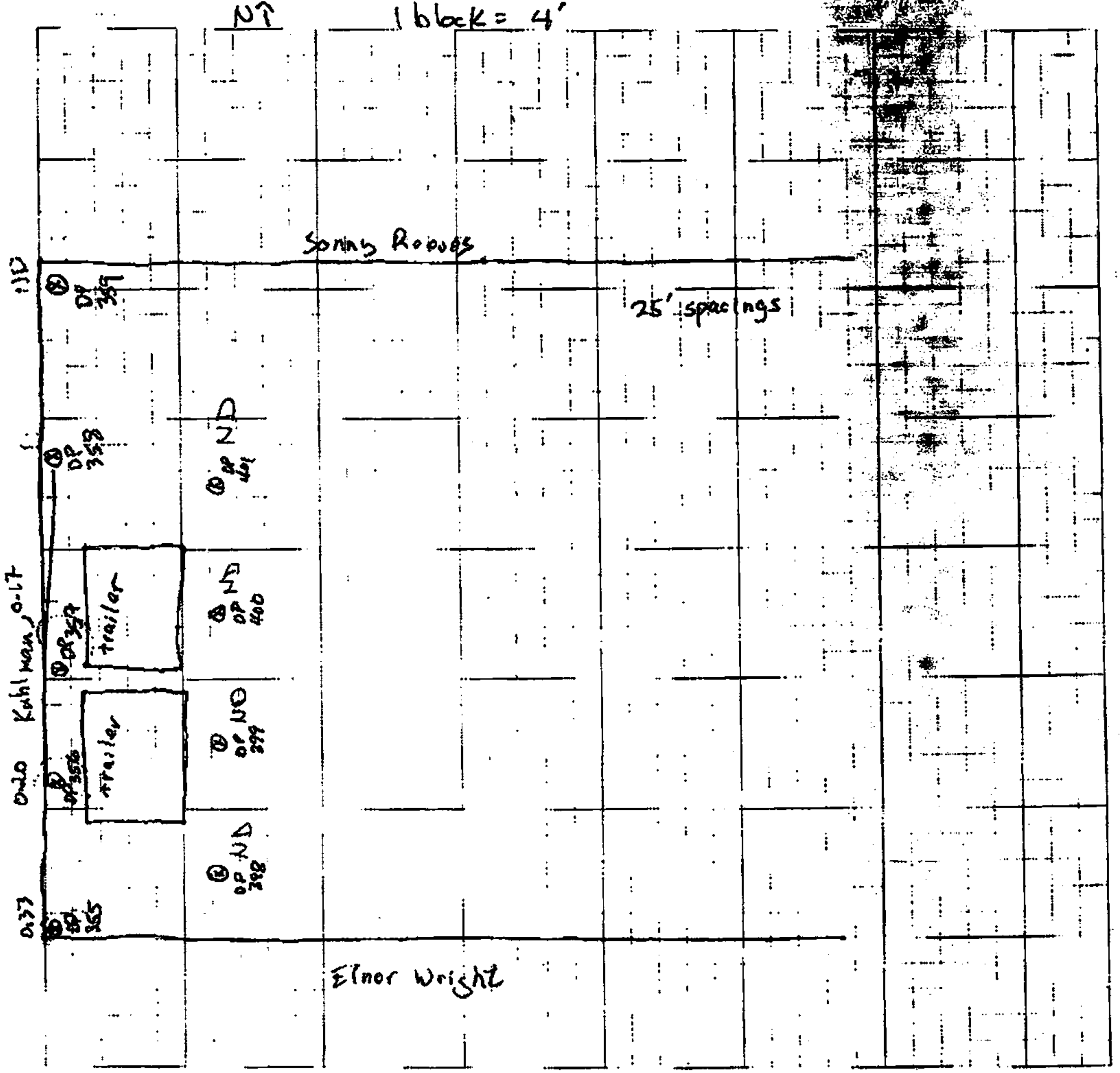
OGDEN

Job Name: Crystal Springs
Job Number:
Title: Wright House
Computed by:
Checked by:
Date: 8-18-00
Sheet: 10 Of: 11



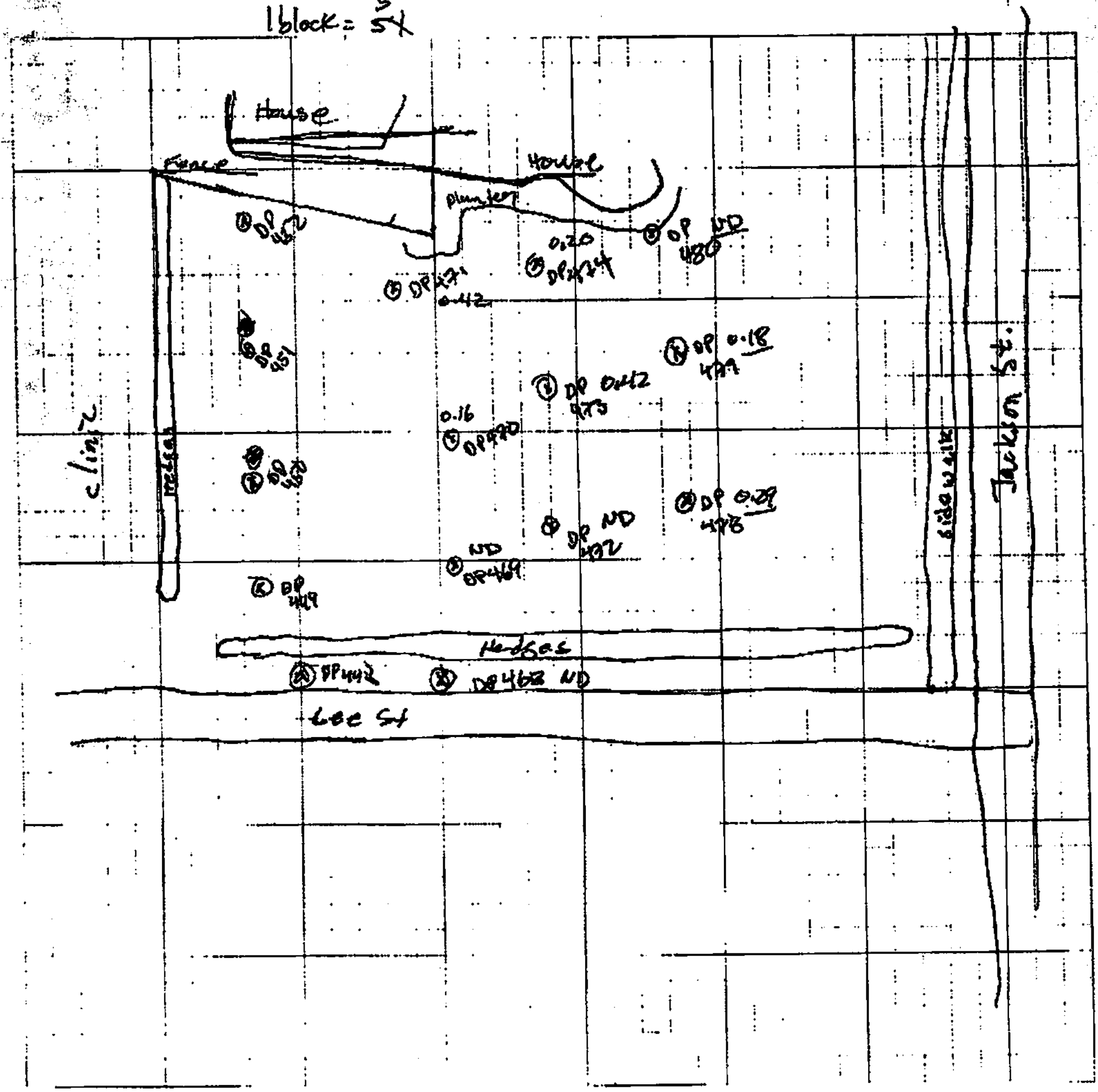
OGDEN

Job Name: Crystal Springs
Job Number:
Title: Harold & Suzanne [illegible]
Computed by: TJF
Checked by: [illegible]
Date: 8-18-00
Sheet [illegible] 11



OGDEN

Job Name:
Job Number:
Title: Dabney yard - south side
Computed by: Checked by:
Date: 8/23/00 Sheet: 12 Of:



OGDEN

Job Name:

Job Number:

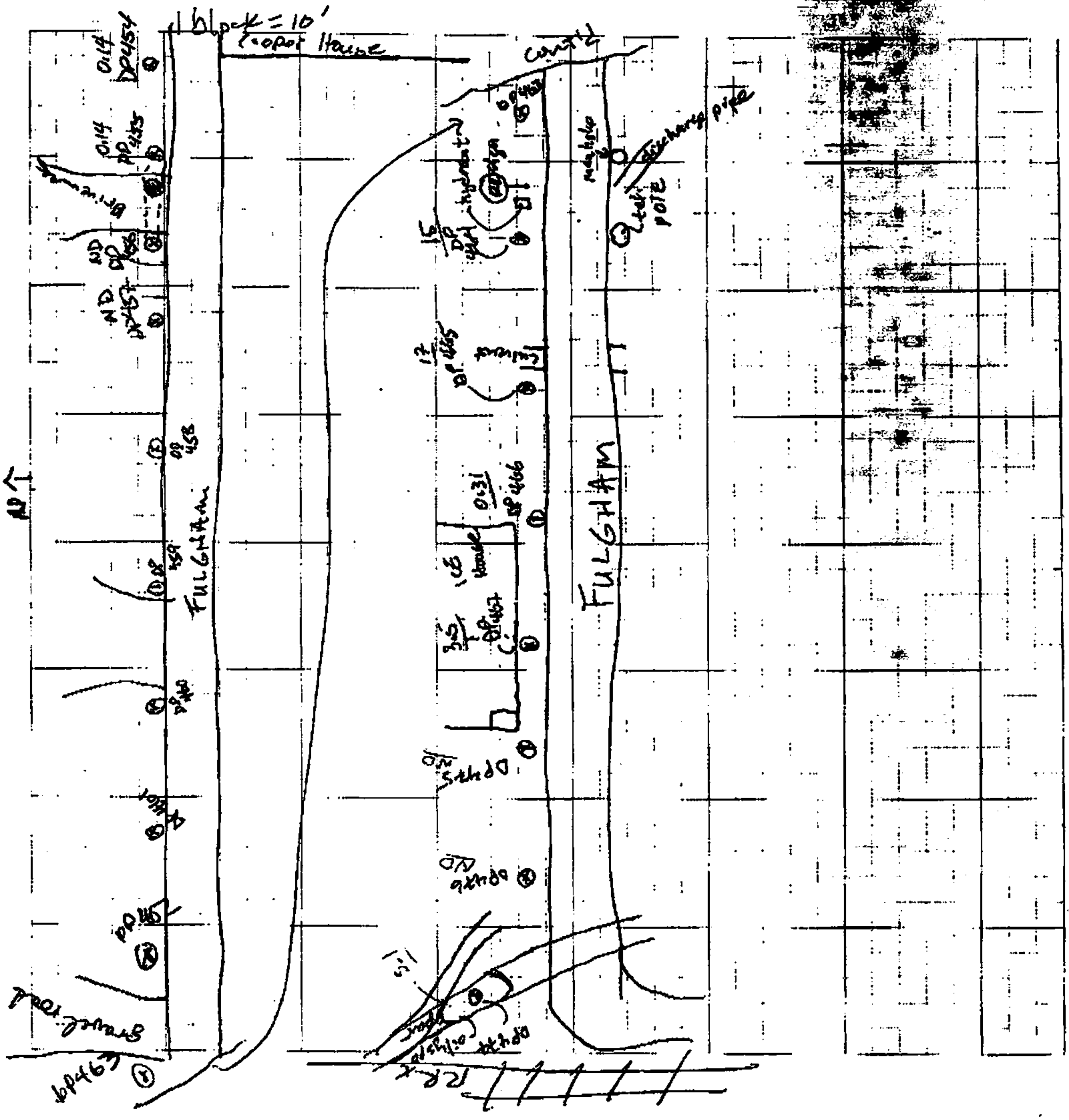
Title: Fulgham Ave

Computed by:

Checked by:

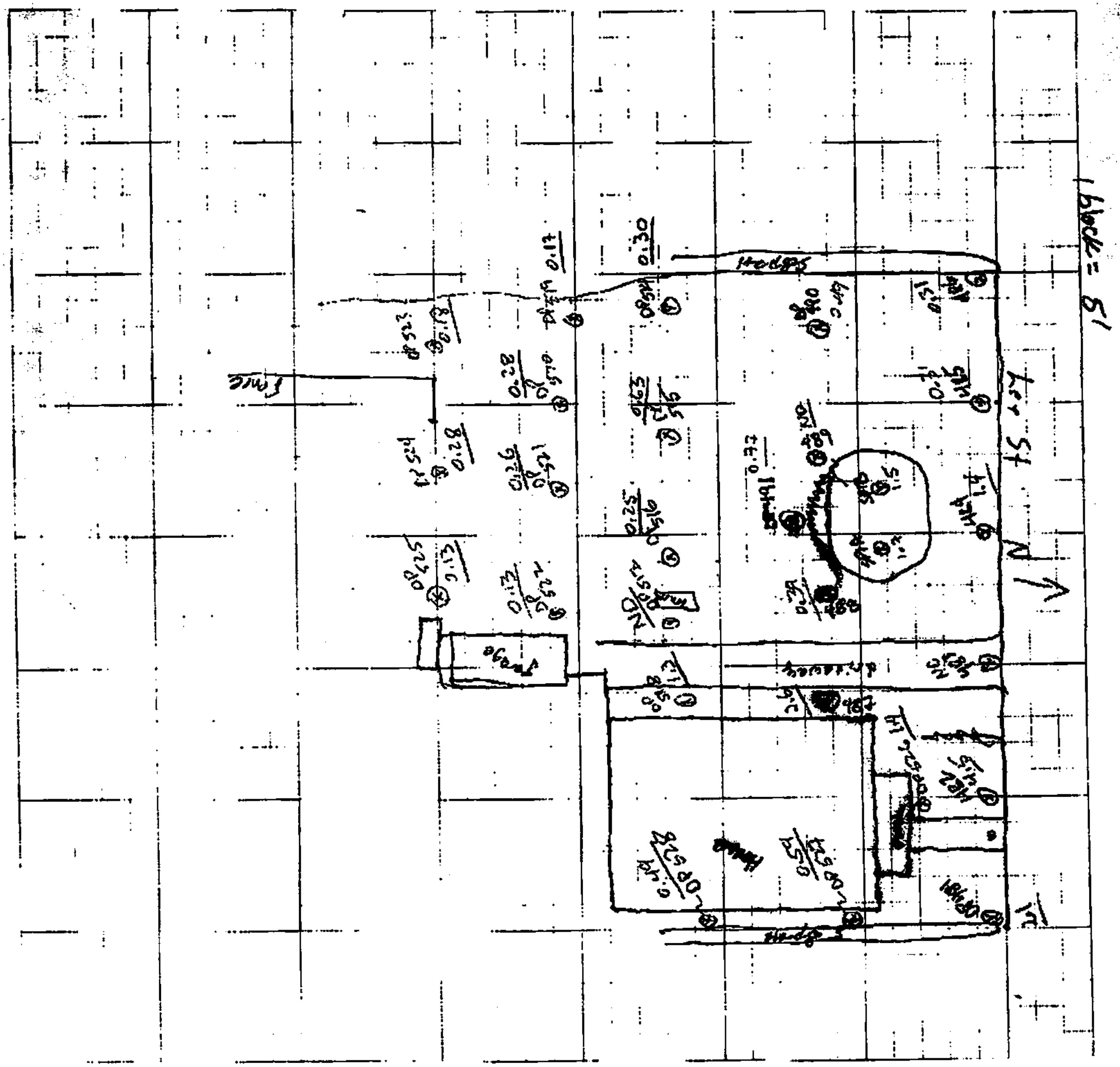
Date:

Sheet:



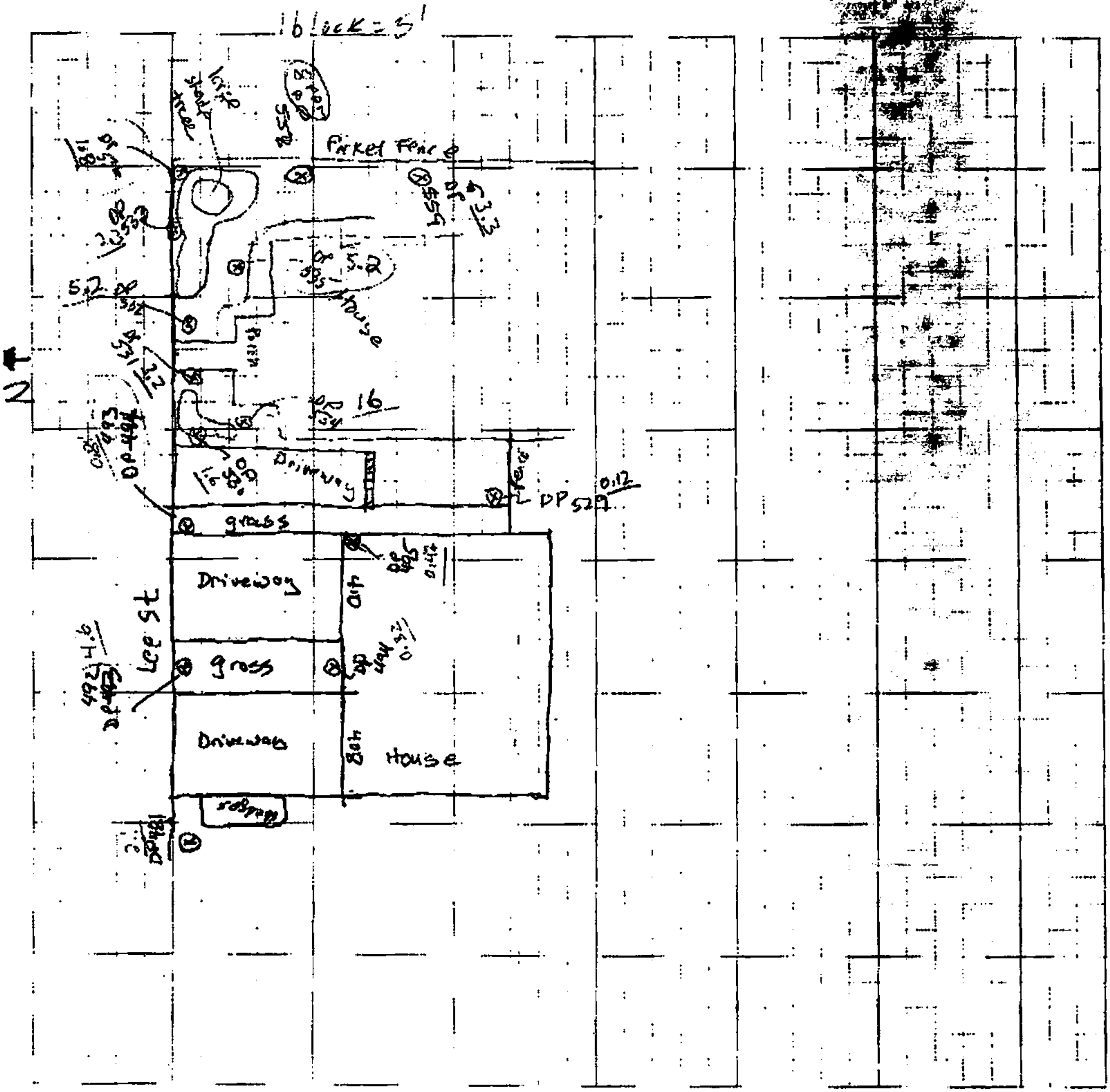
OGDEN

Job Name:
Job Number:
Title: Edwards property
Computed by: TJF Checked by:
Date: 8/24/00 Sheet: 14 Of:



OGDEN

Job Name:
Job Number:
Title: 408/410 Lee S[illegible]
Computed by: TDF
Checked by: [illegible]
Date: 8/24/00
Sheet: [illegible]



OGDEN

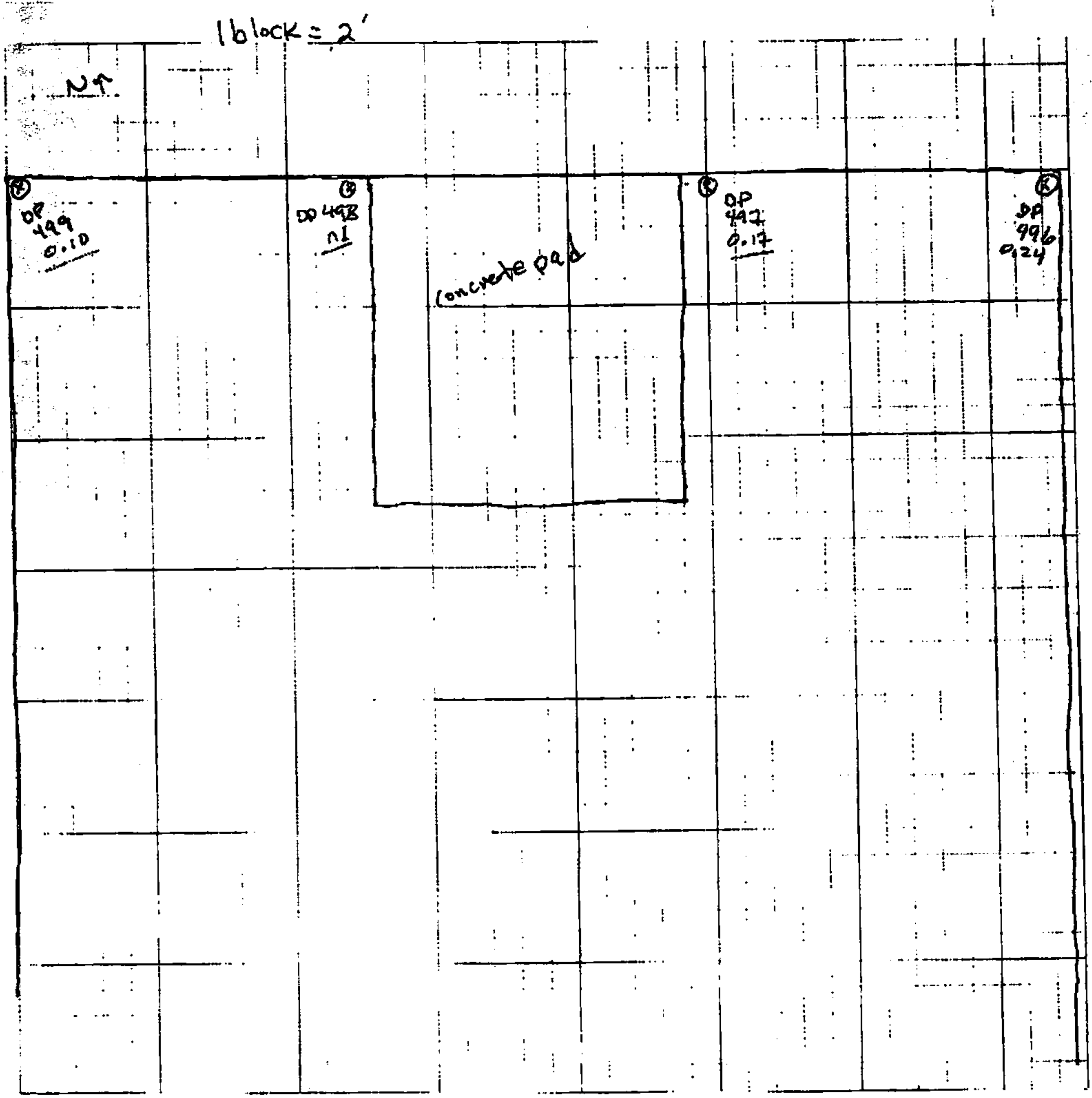
Job Name:

Job Number:

Title: Brent Property Lee St.

Computed by: TJF Checked by:

Date: 8/24/00 Sheet 16 Of:



OGDEN

Job Name:

Job Number:

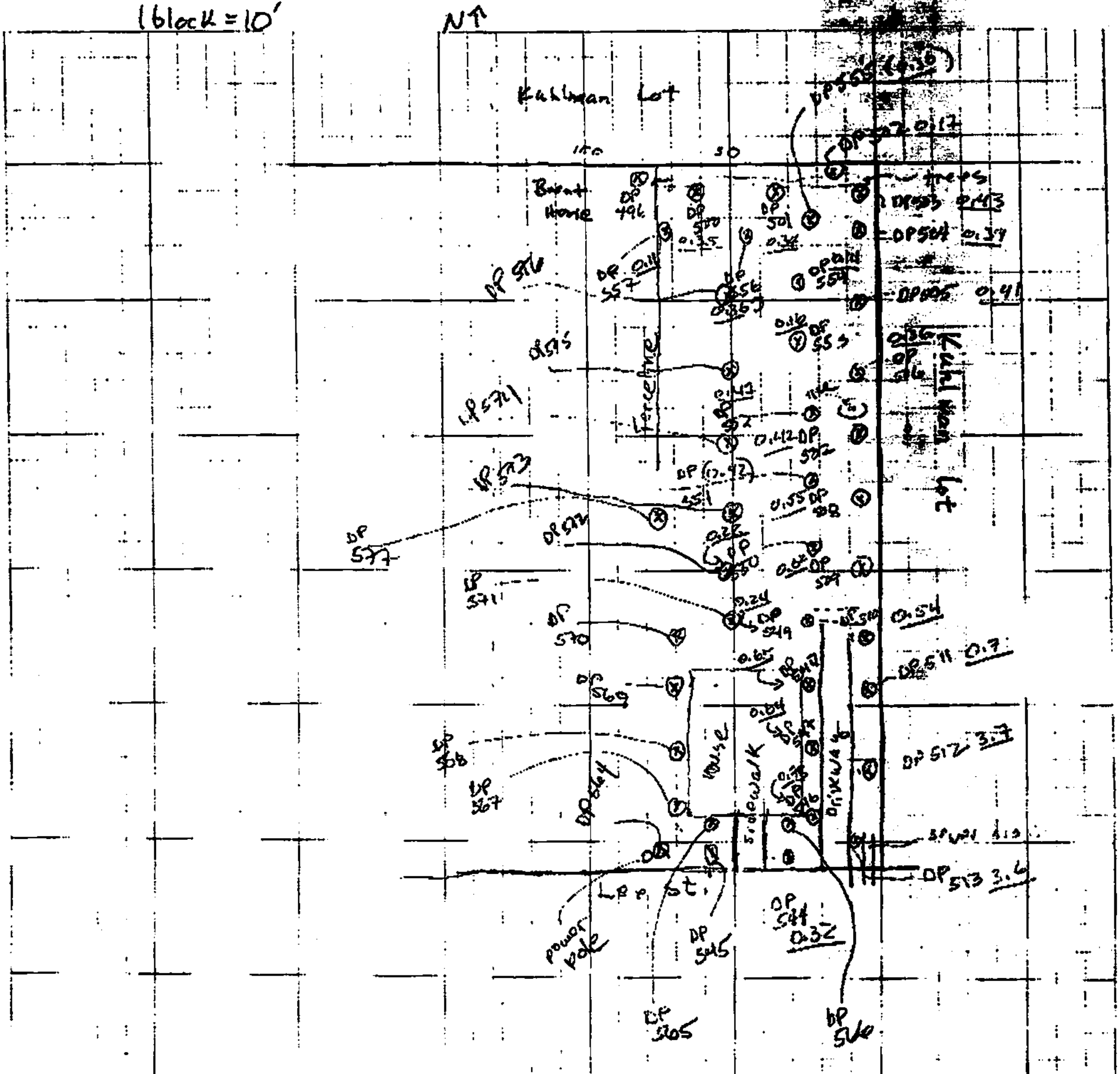
Title: Frazier Property

Computed by: TJF

Checked by:

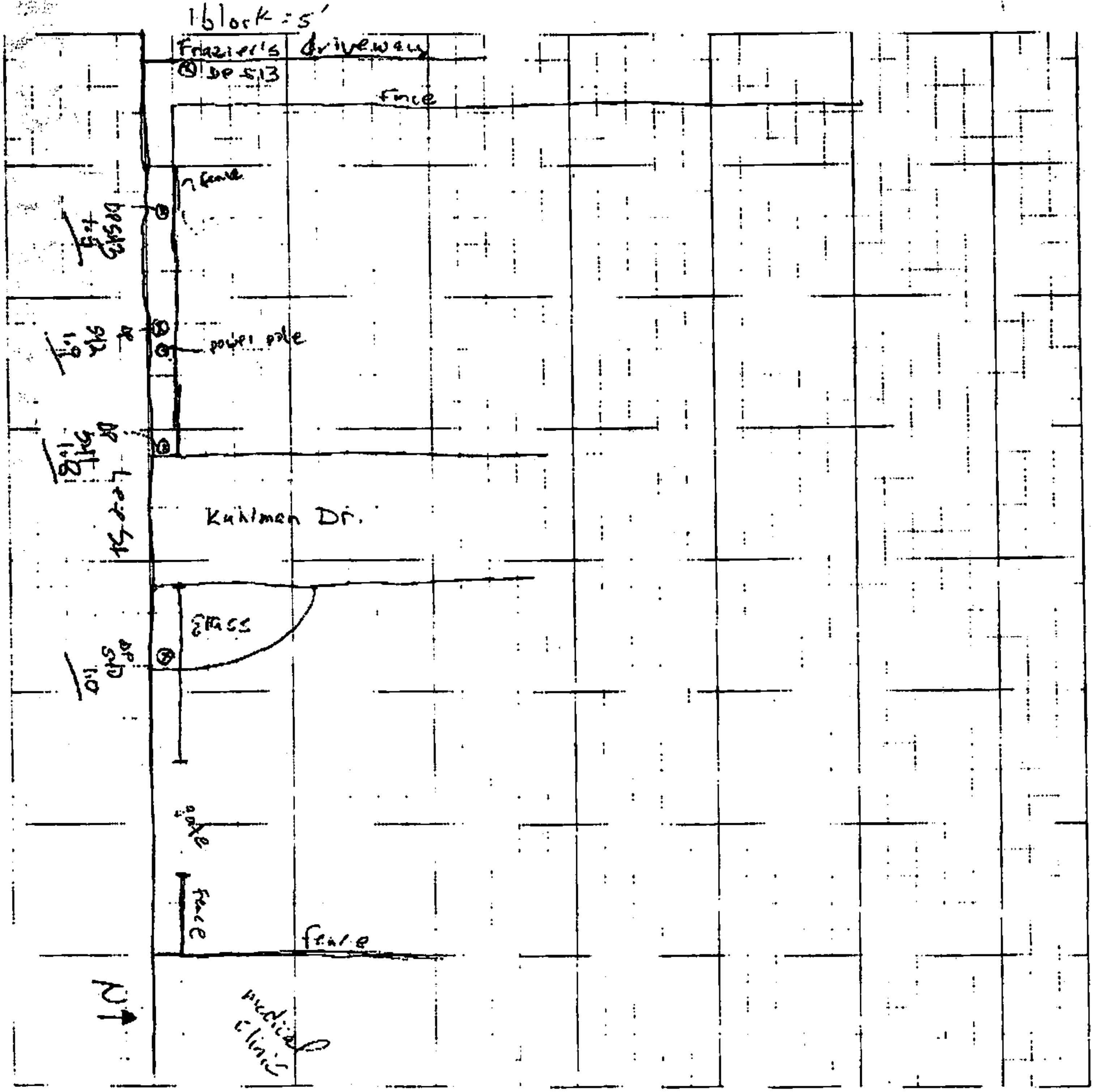
Sheet:

Date: 8/25/00



OGDEN

Job Name:
Job Number:
Title: Kuhlman South Parking Lot
Computed by:
Checked by:
Date: 8/26/2000
Sheet: 1B
Of:



OGDEN

Job Name:

Job Number:

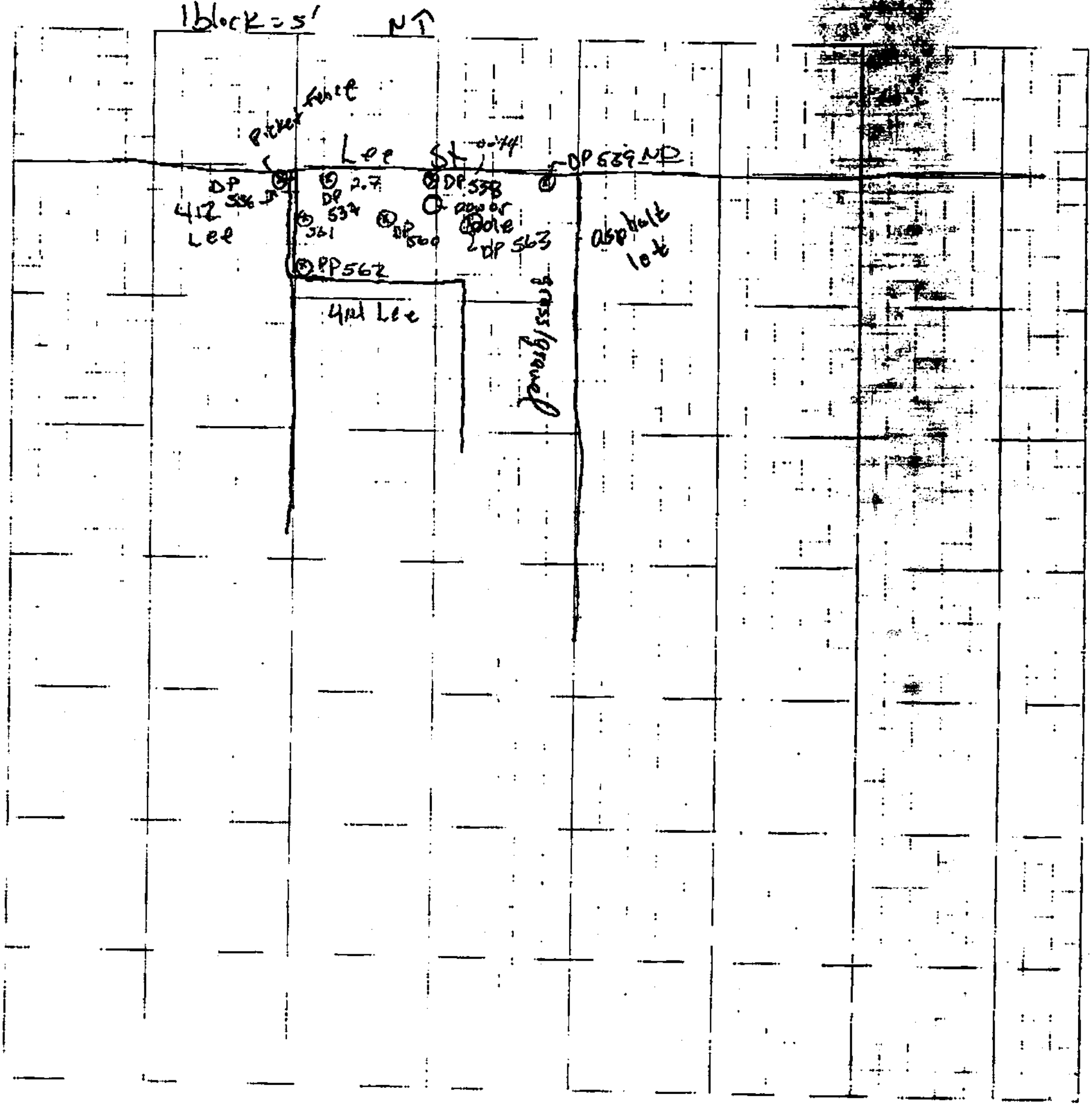
Title: 414 Lee st ([illegible] shop)

Computed by: JDF

Checked by:

Date: 8/26/2000

Sheet [illegible]



OGDEN

FILE COPY

Job Name:
Job Number:
Title:
Computed by:
Checked by:
Date
Sheet
Of:

To: Gretchin Zmitrovich

From Tim Fitzpatrick

RE: Crystal Springs

31 pages total

Ms. Zmitrovich:

Following are data & maps from our investigation. We are complete at this time. Please forward the data to Mr. Robert Martin & Ms. Anastasio Hanel as well. Thank you

Tim Fitzpatrick

704 236 3496 (cell)

Sample Tracking Form

Page 1 of 1

Date: 15 Aug 00

1-20 1-20 1-20 1-20 1-20

Target Analyte	1	2	3																		Blank #1	LCS #1	MS #3	MSD #3
1,3,5-TriCB	<0.10	<0.10	<0.20																		<0.01	101	<0.20	<0.20
1,2,4-TriCB																						105		
1,2,3-TriCB																						102		
1,2,3,5&1,2,4,5																						104		
1,2,3,4-TeCB																						104		
Penta-CB																						106		
Hexa-CB	↓	↓	↓																		↓	111	↓	↓
PCB as 1260	10.0	10.5	6.2																		<0.10	106	5.1	4.7
																							109	
Surrogate-TCMX	116	114	110																		103	109	152	104
DCBP	125	111	120																		118	109		142
	CONTAI	NS																						
	1254	1254																						
	US 1260	US 1260																						
	W/.5	W/.5																						
INT Date	15	15	15																		15	15	15	15

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 16AUG00

Target Analyte			ACID		ACID		ACID				Ac Sample Description				ACID		ACID		ACID				ACID	ACID
	DP300 0.5 4	DP300 4 5	DP301 0.5 6	DP301 4 7	DP302 0.5 8	DP302 4 9	DP303 0.5 10	DP303 4.0 11	DP304 0.5 12	DP304 4 13	DP305 0.5 14	DP305 4 15	DP306 0.5 16	DP306 4 17	DP307 0.5 18	DP307 4 19	DP308 0.5 20	DP308 4 21	DP309 0.5 22	DP309 4 23	Blank #2	LCS #2	8 MS #	8 MSD #
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	99	145	146
1,2,4-TriCB																						99	141	142
1,2,3-TriCB																						99	140	141
1,2,3,5&1,2,4,5																						102	141	143
1,2,3,4-TeCB																						102	139	141
Penta-CB																						106	138	140
Hexa-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	107	135	~~136~~ 13
PCB as 1260	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.29	<0.10	0.66	<0.10	<0.10	<0.10	0.16	<0.10	0.15	<0.10	<0.10	<0.10	<0.10	103	131	~~136~~ 13
Surrogate TCMX	99.6	105	129	104	135	106	137	111	102	85.1	131	97.0	104	91.8	139	118	137	108	137	104	111	104	135	136
DCBP	89.5	100	96.9	101	125	115	130	109	87.9	83.9	129	99.4	101	95.0	140	116	133	107	132	103	111	107	130	130
						3																		
	TRACE					ONES					TWO		TRACE											
	1260					by					OFFSCALE		1260						TRACE					
						TCMS					UL								1260					
											PEAKS													
											AFTER													
											HCB													
											LOOKS													
											LIKE													
											~~[illegible]~~													
INT Date	16	16	16	16	16	16	16	16	17	17	~~1260~~	17	17	17	17	16	18	16	16	16	16	16	16	16

AUGUST

1248?
1260
17

J = Estimated
E = Exceeds calibration range

Page 2 of 3

Sample Tracking Form

Date: Aug 14, 2000

DP310

Target Analyte	ROD Sample Description																						
	~~[illegible]~~	DP310	DP311	311	312	312	313	313	314	314	315	315	316	316	317	317	318	318	319	319	~~30~~ Blank	~~30~~ LCS	MS	MSD
	0.5	4	0.5	4	05	4	0.5	4	0.5	4	0.5	4	05	4	05	4	0.5	4	0.5	4	#3	#3	#30	#30
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43				
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0[illegible]	97.4	100	104
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	98.0	101	105
1,2,3-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	97.0	100	105
1,2,3,5&1,2,4,5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	99.5	103	107
1,2,3,4-TeCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	99.4	103	107
Penta-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	101	106	108
Hexa-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	103	108	109
PCB as 1260	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.16	<0.10	~~0.22~~	<0.10	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	0.13	<0.10	<0.10	100	112	107
											0.12													
Surrogate rec%	101	83.8	96	74	111	93	110	107	112	99	134	107	127	98.0	107	103	109	102	106	112	104	100	103	107
DCBP	115	102	91	79	103	106	109	119	112	105	128	112	129	101	106	107	106	111	108	120	112	107	109	107
			TRACE		TRACE																			
			1260		1260										TRACE									
															1248		TRACE							
															or		1260							
															1254									
INS Date	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17

J = Estimated AUG05T

E = Exceeds calibration range

Sample Tracking Form

Date: 16 AU 2000

	Sample Description																							
	ACID		ACID																				ACID	ACID
Target Analyte	320 0.5 44	320 4 45	321 0.5 46	321 2 47	321 4 48	322 0.5 49	322 4 50	323 0.5 51	323 4 52	324 0.5 53	324 4 54										Blank #4	LCS #4	MS #44	MSD #44
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01										<0.01	104	150	147
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓										↓	104	147	145
1,2,3-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓										↓	104	145	143
1,2,3,5&1,2,4,5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓										↓	103	147	145
1,2,3,4-TeCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓										↓	104	143	141
Penta-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓										↓	105	143	141
Hexa-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓											102	140	138
PCB as 1260	0.28	<0.10	0.23	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.25	<0.10										<0.10	102	161	~~137~~ 16
Surrogate TCMX	141	112	134	107	93.7	103	105	106	104	99.6	107										111	101	139	133
DLBP	155	117	137	111	105	110	116	109	113	104	107										122	104	147	149
			OC					TRACE																
			PEAK					1260																
			BY																					
			MANUAL																					
INJ Date	17	17	17	17	17	17	17	17	17	17	17										17	17	17	17

AUGUST 00

J = Estimated
E = Exceeds calibration range

Page 1 of

Sample Tracking Form

DCUR 1-2 DIL 1-5

Date: August 17, 2000

Target Analyte	Sample Description																							
	ACID						ACID						ACID		ACID		ACID						RCID ACIT	
	325 05 55	325 4 56	326 0.5 57	326 4 58	327 05 59	327 4 60	328 05 61	328 4 62	329 05 63	329 4 64	330 0.5 65	330 4 66	331 0.5 67	331 4 68	332 0.5 69	332 4 70	333 0.5 71	333 4 72	334 0.5 73	334 4 74	Blank #5	LCS #5	MS #61	MSC #61
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	99.8	149	152
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	99.4	149	150
1,2,3-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	98.4	147	148
1,2,3,5&1,2,4,5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	98.4	149	150
1,2,3,4-TeCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	97.0	148	148
Penta-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	98.4	147	142
Hexa-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	96.8	141	14[illegible]
PCB as 1260	0.99	<0.10	0.43	<0.10	0.45	<0.10	4.0	<0.10	0.69	<0.10	0.34	<0.10	0.52	<0.10	3.4	<0.10	6.1	<0.10	<0.10	<0.10	<0.10	108	120	122
Surrogate TCMX	143	103	108	104	109	109	145	104	103	108	107	107	132	104	133	100	137	103	104	105	103	97.4	147	143
DCBP	132	103	107	117	113	115	156	107	103	110	105	110	134	110	140	108	127	113	110	114	116	128	152	132
					0Z																			
		TRACE			Peak						0Z					TRACE			[illegible]					
		1260			A7						PEAK					1260			1260					
					7.789						A7													
											7.782													
INJ. Date	17	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	17	17

J = Estimated
E = Exceeds calibration range

Page 1 of 2

Sample Tracking Form

Date: August 11, 2000
~~ACD Act~~

ACD ACD ACD ACD ACD

Target Analyte	335 0.5 75	335 4 76	336 ~~0.5~~ 4 78 ~~77~~	336 ~~4~~ 0.5 77 ~~78~~	337 0.5 79	337 4 80	338 0.5 81	338 4 82	339 0.5 83	339 4 84	340 0.5 85	340 4 86	341 0.5 87	341 4 88	342 0.5 89	342 4 90	343 0.5 91	343 4 92	344 0.5 93	344 4 94	Blank # 16	LCS # 10	1-20 01 MS # 75	MSD # 75
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	976	148	146
1,2,4-TriCB																						986	146	145
1,2,3-TriCB																						982	144	143
1,2,3,5&1,2,4,5																						97.9	146	144
1,2,3,4-TeCB																						976	144	142
Penta-CB																						986	144	142
Hexa-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	978	139	139
PCB as 1260	0.32	<0.10	<0.10	0.74	0.12	<0.10	0.25	<0.10	0.61	<0.10	0.73	<0.01	0.25	<0.01	0.60	<0.01	0.12	<0.10	0.17	<0.10	<0.10	976	/	134
Surrogate TCMX	128	107	105	111	110	103	139	110	143	102	105	106	135	98	133	96	102	99.3	104	103	100	98.2	141	140
DCBP	142	117	115	112	123	109	162	117	153	112	115	116	116	108	139	101	102	114	108	110	130	110	162	158
																							→29	
[illegible] Date	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

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Date: 17AUG00

Target Analyte	ACID Sample Description 345 0.5 95	345 4 96	346 0.5 97	346 4 98	347 0.5 99	347 4 100	348 0.5 101	348 4 102	349 0.5 103	349 4 104	Sampl 1.5 105	Sampl 5.5 106	~~350 0.5 107~~	~~350 4 108~~	~~351 0.5 109~~	~~351 4 110~~	~~352 0.5 111~~	~~352 4 112~~	~~353 0.5 113~~	~~353 4 114~~	Blank #7	LCS #7	MS #95	MSD #95
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01									<0.01	98.2	88.8	96.6
1,2,4-TriCB																						98.4	88.8	96.2
1,2,3-TriCB																						97.2	85.6	96.0
1,2,3,5&1,2,4,5																						99.0	92.1	97.3
1,2,3,4-TeCB																						96.5	91.0	94.8
Penta-CB																						97.5	98.2	97.6
Hexa-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									✓	100	101	102
PCB as 1260	<0.10	<0.10	0.31	<0.10	0.13	<0.10	0.22	<0.10	0.61	<0.10	0.29	<0.10									<0.10	104	110	98.9
Surrogate TCMX	106	99.9	99.3	98.7	98.7	99.6	94.5	95.4	122	90.0	105	89.8									114	98.3	94.9	99.8
DCBP	108	108	100	112	107	111	104	107	137	106	121	113									128	114	103	90.9
	THK							~~UK~~	03															
	1260							M	PEAK		MIX													
									AFTER		of													
									MARKER		1260 &													
											1254													
											w/41													
IFS Date	18	18	18	18	18	18	18	18	18	18	18	18									~~18~~ 17	18	18	18

J = Estimated AUGUST 00

E = Exceeds calibration range

Sample Tracking Form

[illegible]

Date: 18 Au 00

J AciD

Target Analyte	Sample Description																							
	AciD						AciD		AciD				AciD											
	350 0.5	350 4	351 0.5	351 4	352 0.5	352 4	353 0.5	353 4	354 0.5	354 4	HA-1 0.5	1 4	2 0.5	2 4	3 0.5	3 1.5	4 0.5	4 2.5	5 0.5	5 2.5	Blank #8	LCS #8	MS #107	MSD #10
	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126				
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	86.6	140	132
1,2,4-TriCB																						79.9	135	132
1,2,3-TriCB																						79.3	133	131
1,2,3,5&1,2,4,5																						150	133	131
1,2,3,4-TeCB																						61.9	126	124
Penta-CB																						57.3	124	121
Hexa-CB																						61.0	124	122
PCB as 1260	1.8	<0.10	0.33	<0.10	0.55	<0.10	1.6	<0.10	0.19	<0.10	0.19	<0.10	7.2	<0.10	0.17	0.31	<0.10	<0.10	<0.10	<0.10	<0.10	65.6	121	~~117~~
Surrogate TCMX	104	100	[illegible]	96.4	101	90.0	114	87.7	114	87.3	90.7	90.6	118	86.7	90.6	87.1	87.3	77.0	82.8	82.9	69.9	65.7	124	117
DCBP	116	114	108	116	114	105	138	112	135	109	101	113	136	114	106	105	104	110	102	104	98.7	92.6	138	129
INJ Date	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	19	19	18	18

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 18 Aug 00

Sample Description

Target Analyte	Acid HA-6 0.5 127	6 2.5 128	Acid 7 0.5 129	Acid 7 1.5 130	Acid 355 0.5 131	355 4 132	Acid 356 0.5 133	356 4 134	Acid 357 0.5 135	357 4 136	358 0.5 137	358 4 138
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1,2,3-TriCB												
1,2,3,5&1,2,4,5												
1,2,3,4-TeCB												
Penta-CB												
Hexa-CB												
PCB as 1260	0.10	<0.10	0.11	0.16	0.35	<0.10	0.20	<0.10	0.17	<0.10	<0.10	<0.10
Surrogate TCMX	107	75.3	103	98.2	130	104.3	120	62.5	96.1	65.4	64.9	62.2
DCBP	129	92.7	130	123	73.8	99.4	281	106	130	96.6	94.4	97.8
				MIX								
				1254								
				1260								
				NIII								
INJ Date	18	~~18~~ 19	19	19	19	19	19	19	19	19	19	19

Target Analyte	359 0.5 139	359 4 140	360 0.5 141	360 4 142	ACD 361 0.5 143	361 4 144	362 0.5 145	362 4 146	Blank #9	LCS #9	MS #128	MSD #28
1,3,5-TriCB	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	~~95.8~~ 96	87.4	89.4
1,2,4-TriCB	↓	↓	↓		↓	↓	↓	↓	↓	88.6	83.6	84.8
1,2,3-TriCB										~~88.8~~	82.2	83.2
1,2,3,5&1,2,4,5										104	78.3	80.2
1,2,3,4-TeCB										73.5	70.2	71.6
Penta-CB										66.3	63.8	64.8
Hexa-CB										~~77.4~~ 77.1	61.8	68.[illegible]
PCB as 1260	<0.10	<0.10	[illegible]		0.22	<0.10	0.47	<0.10	~~0.42~~	97.1	73.7	72.3
									<0.10			
Surrogate TCMX	59.2	60.5	93		96	103	127	94.6	~~112~~	~~77.4~~	71.0	72.0
DCBP	107	92.6	101		108	106	135	96.1	~~129~~		94.7	96.2
									73.1	71.7		
									98.4	100		
INJ Date	19	19	18		18	19	18	19	~~20~~ 19	19	19	19

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 18 Aug 00

Sample Description

Target Analyte	Acid 363 0.5 147	363 4 148	Acid 364 0.5 149	364 4 150	Acid 365 0.5 151	365 4 152	366 0.5 153	366 4 154	367 0.5 155	367 4 156	368 0.5 157	368 4 158	Acid 369 0.5 159	369 4 160	AciD 370 0.5 161	370 4 162	371 0.5 163	371 4 164	372 0.5 165	372 4 166	Blank # 10	LCS # 10	Acid MS # 147	Acid MSD # 147
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		<0.01		<0.01		<0.01	<0.01	<0.01		<0.01		<0.01		<0.01	92	125	127
1,2,4-TriCB	↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓		↓		↓		↓	91	125	126
1,2,3-TriCB	↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓		↓		↓		↓	91	122	124
1,2,3,5&1,2,4,5	↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓		↓		↓		↓	177	246	250
1,2,3,4-TeCB	↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓		↓		↓		↓	85	118	121
Penta-CB	↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓		↓		↓		↓	81	116	117
Hexa-CB	↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓		↓		↓		↓	80	114	115
PCB as 1260	0.42	<0.10	0.34	<0.10	<0.10 ~~0.018~~		~~0.06~~		~~0.09~~		~~0.07~~		0.45	<0.10	~~0.05~~		~~0.03~~		~~0.04~~ ~~0.95~~		<0.01	81	136	136
					~~0.03~~		<0.10		<0.10		<0.10				<0.10		<0.10		<0.10					
Surrogate TCMX	112	92.6	119	89.1	120		87		90		88		115	90.3	116		85		~~92~~		89	74	121	120
DCBP	129	99.9	129	91.0	120		103		102		102		124	92.4	130		102		~~110~~		107	91	137	132
																			84					
																			100					
	18	18	19		19		19		19		19		19		19		19		19		10	19	18	18

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 18 Aug 00

Target Analyte	Sample Description																							
			Auo		Auo		Acio																	
	373 0.5 167	373 4 168	374 0.5 169	374 4 170	375 0.5 171	375 4 172	376 0.5 173	376 4 174	377 0.5 175	377 4 176	378 0.5 177	378 4 178	379 0.5 179	379 4 180	380 0.5 181	380 4 182	381 0.5 183	381 4 184			Blank # 11	LCS # 11	MS # 167	MSD # 167
1,3,5-TriCB	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01				<0.01	91	87	88
1,2,4-TriCB																						90	86	86
1,2,3-TriCB																						89	86	86
1,2,3,5&1,2,4,5																						196	188	118
1,2,3,4-TeCB																						88	80	80
Penta-CB																						79	76	76
Hexa-CB																						79	77	77
PCB as 1260	~~0.05~~		~~0.08~~		~~0.07~~		~~0.09~~		~~0.11~~		~~0.07~~		~~0.01~~		~~0.02~~		<0.10				<0.01	85.7	86	88
	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10		<0.10		<0.10									
Surrogate TCMX	82		113		110		117		80		81		77		79		85.7				91	82	79	80
DCBP	99		124		120		138		96		99		90		99		108				111	101	97	93
	19		19		19		19		19		19		19		19	[illegible]	19				19	19	19	19

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 19AUG00

Target Analyte	Sample Description																				Blank	LCS	MS	MSD
	Acid		Acid		Acid		Acid		Acid				ACID		Acid								Acid	Acid
	382	382	383	383	384	384	385	385	386	386	387	387	388	388	389	389	390	390	391	391				
	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4				
	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	#12	#12	# 199	# 199
1,3,5-TriCB	<0.01		<0.01		<0.01		<0.01	<0.01	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	91.9	136	132
1,2,4-TriCB	↓		↓		↓		↓	↓	↓		↓		↓		↓		↓		↓		↓	91.7	136	133
1,2,3-TriCB																						92.2	133	129
1,2,3,5&1,2,4,5																						18.6	137	132
1,2,3,4-TeCB																						92.9	138	132
Penta-CB																						95.7	140	135
Hexa-CB																						95.7	140	134
PCB as 1260	<0.10		<0.10		<0.10		0.68	<0.10	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10		<0.10	94.1	~~145~~	130
																							135	✓
Surrogate TCMX	133		139		136		140	71.6	139		97.7		138		137		103		103		106	94.0	144	139
DCBP	111		126		115		117	82.2	97.1		93.2		111		122		96.9		105		98.9	90.9	121	120
	UZ		Smaller																					
	PEAK		UZ PEAKS																					
	START		START OF				1254						TRACE		TRACE									
	1260		1260				1260				TRACE		1260		1260									
											1260													
	TRACE		TRACE		TRACE		N/12		1260															
	1260		1260		1260				JUST															
									UNDER															
			DI						LIMIT															
			[illegible]																					
INS Date	19		19		19		19	19	19		19		19		19		19		19		19	19	19	19

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

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Date: 19A-00

Target Analyte	Sample Description																				Blank	LCS	MS	MSD
	392 0.5 205	392 4 206	393 0.5 207	393 4 208	394 0.5 209	394 4 210	395 0.5 211	395 4 212	396 0.5 213	396 4 214	397 0.5 215	397 4 216	398 0.5 217	398 4 218	399 0.5 219	399 4 220	400 0.5 221	400 4 222	401 0.5 223	401 4 224	#13	#13	# 205	# 205
1,3,5-TriCB	<0.01		<0.01		<0.01		<0.01	<0.01	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	88.9	90.5	92.0
1,2,4-TriCB																						87.	90.5	92.0
1,2,3-TriCB																						87.5	90.4	92.0
1,2,3,5&1,2,4,5																						175	199	187
1,2,3,4-TeCB																						86.8	92.6	93.5
Penta-CB																						86.3	94.7	95.5
Hexa-CB																						87.1	94.1	98.4
PCB as 1260	<0.10		<0.10		<0.10		0.14	<0.10	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10		<0.10	87.1	93.2	94.5
Surrogate TCMX	103		102	~~99.6~~	99.6		95.6	77.1	92.9		96.9		97.6		93.0		96.1		92.3		97.6	88.4	97.4	98.4
DCBP	95.9		90.8	~~90.5~~	91.5		96.5	82.0	96.0		97.7		136		98.9		98.0		83.1		101	96.3	86.9	98.6
								TRUE																
								1260																
INT Date	19		19		19		19		19		19		19		19		19		19		19	19	19	19

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 19 Aug 00

Target Analyte	Sample Description																							
	402 0.5 225	402 4 226	403 0.5 227	403 4 228	404 0.5 229	404 4 230	405 0.5 231	405 4 232	406 0.5 233	406 4 234	407 0.5 235	407 4 236	408 0.5 237	408 4 238	409 0.5 239	409 4 240	410 0.5 241	410 4 242	8/10 411 0.5 243	411 4 244	Blank # 14	LCS # 14	MS # 225	MSC # 225
1,3,5-TriCB	<0.01		<0.01		<0.01		<0.01	~~<0.01~~	<0.01	<0.01	<0.01		<0.01		<0.01		<0.01		<0.01	<0.01	<0.01	94.6	92.9	90.2
1,2,4-TriCB	↓		↓		↓		↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓	92.8	91.7	88.2
1,2,3-TriCB	↓		↓		↓		↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓	92.8	91.5	88.2
1,2,3,5&1,2,4,5	↓		↓		↓		↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓	92.2	183	88.9
1,2,3,4-TeCB	↓		↓		↓		↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓	91.2	90.6	88.0
Penta-CB	↓		↓		↓		↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓	89.4	89.9	87.6
Hexa-CB	↓		↓		↓		↓	↓	↓	↓	↓		↓		↓		↓		↓	↓	↓	90.8	90.4	[illegible]
PCB as 1260	<0.10		<0.10		<0.10		<0.10	~~0.12~~	0.12	<0.10	<0.10		<0.10		<0.10		<0.10		0.28	<0.10	<0.10	86.8	93.6	89.8
Surrogate TCMX	93.7		93.7		94.0		95.8		95.4	92.3	94.9		92.2		95.6		92.3		123	93.8	92.9	92.1	89.6	88.5
DCBP	95.3		94.7		93.5		95.0		91.8	98.1	93.1		95.2		91.4		91.2		119	95.5	92.9	92.6	92.4	88.9
INJ Date	19		19		19		19		19	20	19		19		20		19		19	20	20	20	19	19

J = Estimated
E = Exceeds calibration range

Page [illegible] of [illegible]

[illegible] ✓ LOD Rev

Sample Tracking Form

Date: 19 Aug 00

Target Analyte	412 0.5 245	412 4 246	413 0.5 247	413 4 248	414 0.5 249	414 4 250	415 0.5 251	415 4 252	416 0.5 253	416 4 254	417 0.5 255	417 4 256
1,3,5-TriCB	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
1,2,4-TriCB												
1,2,3-TriCB												
1,2,3,5&1,2,4,5												
1,2,3,4-TeCB												
Penta-CB												
Hexa-CB	↓	↓	↓		↓	↓	↓	↓	↓		↓	↓
PCB as 1260	0.78	<0.10	<0.10		0.14	<0.10	<0.10	<0.10	<0.10		~~<0.05~~	<0.10
											0.10	
Surrogate TCMX	126	82.3	91.4		92.1	87.4	93.2	78.5	92.4		94.6	80.6
DCBP	111	91.5	86.1		72.7	95.2	51.7	86.4	89.9		91.8	89.5
							<0.01					
							↓					
							0.12					
							85.6					
							86.2					
INJ Date	19	20	19		19	20	20		20		20	20

Target Analyte	418 05 257	418 4 258	419 05 259	419 4 260	420 0.5 261	420 4 262	421 0.5 263	421 4. 264	Blank # 15	LCS # 15	MS # 249	MSD # 249
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	89.1	88.6	86.0
1,2,4-TriCB										88.9	88.3	85.1
1,2,3-TriCB										89.0	88.2	84.8
1,2,3,5&1,2,4,5										179	177	171
1,2,3,4-TeCB										88.6	86.8	83.4
Penta-CB										89.3	86.7	83.4
Hexa-CB	↓	↓	↓	↓	↓		↓	↓	↓	89.6	87.9	86.[illegible]
PCB as 1260	1.1	<0.10	0.92	<0.10	<0.10		0.55	<0.10	<0.10	86.4	94.6	95.5
Surrogate TCMX	121	80.3	87.4	88.3	84.1		85.5	77.0	98.4	89.9	93.6	87.9
DCBP	107	87.8	85.1	95.6	85.0		85.5	86.4	91.8	85.7	71.0	73.2
INJ Date	20		20	20	20		20	20	19	19	19	20

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 19 Aug 00

ACID

	Sample Description																							
Target Analyte	422 0.5 265	422 4 266	423 0.5 267	423 4 268	424 0.5 269	424 4 270	425 0.5 271	425 4 272	426 0.5 273	426 4 274	427 0.5 275	427 4 276									Blank #	LCS #	MS #	M #
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01		<0.01	<0.01												
1,2,4-TriCB																								
1,2,3-TriCB																								
1,2,3,5&1,2,4,5																								
1,2,3,4-TeCB																								
Penta-CB																								
Hexa-CB																								
PCB as 1260	0.19	<0.10	0.19	<0.10	<0.10		0.12	<0.10	<0.10		0.14	<0.10												
Surrogate TCMX	119	70.3	115	75.0	88.6		84.2	75.6	83.7		86.4	75.7												
DCBP	115	81.9	119	86.1	85.2		83.3	79.7	88.6		94.1	85.1												
IS Data	20	20	20	20	20		20	20	20		20	20												

See Previous Page

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Page ____ of ____

DIL

2 ACIDS

Date: 20 Aug 00

Target Analyte	Sample Description																				Blank	LCS	MS	M
			Acid		Acid		Acid		Acid								Acid			Acid				
	428 0.5 277	428 4 278	429 0.5 279	429 4 280	430 0.5 281	430 4 282	431 0.5 283	431 4 284	432 0.5 285	432 4 286	433 0.5 287	433 4 288	434 0.5 289	434 4 290	435 0.5 291	435 4 292	436 0.3 293	436 4 294	HA-7 2.25 295	HA-8 0.5 296	# 16	# 16	# 277	# 2
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		89.8	9
1,2,4-TriCB																							87.0	8
1,2,3-TriCB																							87.3	8
1,2,3,5&1,2,4,5																							173	17
1,2,3,4-TeCB																							85.1	8
Penta-CB																							80.4	
Hexa-CB																							80.7	
PCB as 1260	0.44	[illegible]	0.89	<0.10	1.6	<0.10	0.70	<0.10	5.1	<0.10	<0.10		<0.10		0.74	<0.10	0.68	<0.10	<0.10	<2.0 ①	<0.10		110	
Surrogate TCMX	90.3	[illegible]	117	23.4	121	61.4	120	68.3	126	86.5	83.6		86.2		85.7	79.6	130	84.4	85.9	127	87.7		85.2	
DCBP	91.1	[illegible]	120	88.2	123	87.4	118	85.7	123	99.2	86.1		89.9		89.4	93.3	105	90.4	94.6	125	94.6		94.4	
							EARLY		LATE															
		<0.9					UI		OZ				TRACE				1254			① [illegible]				
							PEAKS		BY				1260				1260			[illegible]				
									TCMX											[illegible]				
																	W112							
		<0.10																						
		70.5																						
		85.2																						
INJ Date	20	20	20	20	20	20	20	20	20	20	20		20		20	20	20	20	20	20				

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 20 Aug 00

Target Analyte	↓ TOX Sample Description HA8 2.25 297	↓ TOX Acid HA9 0.5 298	↓ TOX Acid HA9 2.5 299	437 0.5 300	437 4 301	438 0.5 302	438 4 303	439 0.5 304	439 4 305	440 0.5 306	440 4 307	Acid 441 0.5 308	441 4 309	Acid 442 0.5 310	442 4 311	Acid 443 0.5 312	443 4 313	Acid 444 0.5 314	444 4 315	Acid 445 0.5 316	Blank # 17	LCS # 17	MS # 304	MSD # 304
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01		<0.01	<0.01	91.0		
1,2,4-TriCB																						87.3		
1,2,3-TriCB																						88.4		
1,2,3,5&1,2,4,5																						174		
1,2,3,4-TeCB																						83.7		
Penta-CB																						81.0		
Hexa-CB																						80.9		
PCB as 1260	<0.50	<1.0	<0.50	<0.10		<0.10		<0.10		<0.10		0.70		1.0		0.43		0.11		0.28	<0.10	78.4		
Surrogate TCMX	88.7	110	111	127		108		85.3		90.2		114		112		112		117		110	90.1	86.1		
DCBP	92.4	146	119	109		117		93.7		92.3		117		98.8		110		119		108	97.4	95.1		
	[illegible] LY TOX- [illegible]																							
	BASE LIMIT 70 0.5	[illegible] LIMIT 70 1.0	BASE LIMIT 70 0.5																					
INS Date	20	20	20	20		20		20		20		20		20		20		20		20	20	20		

j = Estimated
E = Exceeds calibration range

2 large U.I. Peaks one by HCB
one by TCMX

Sample Tracking Form

Date: 20 Aug 00

Sample Description

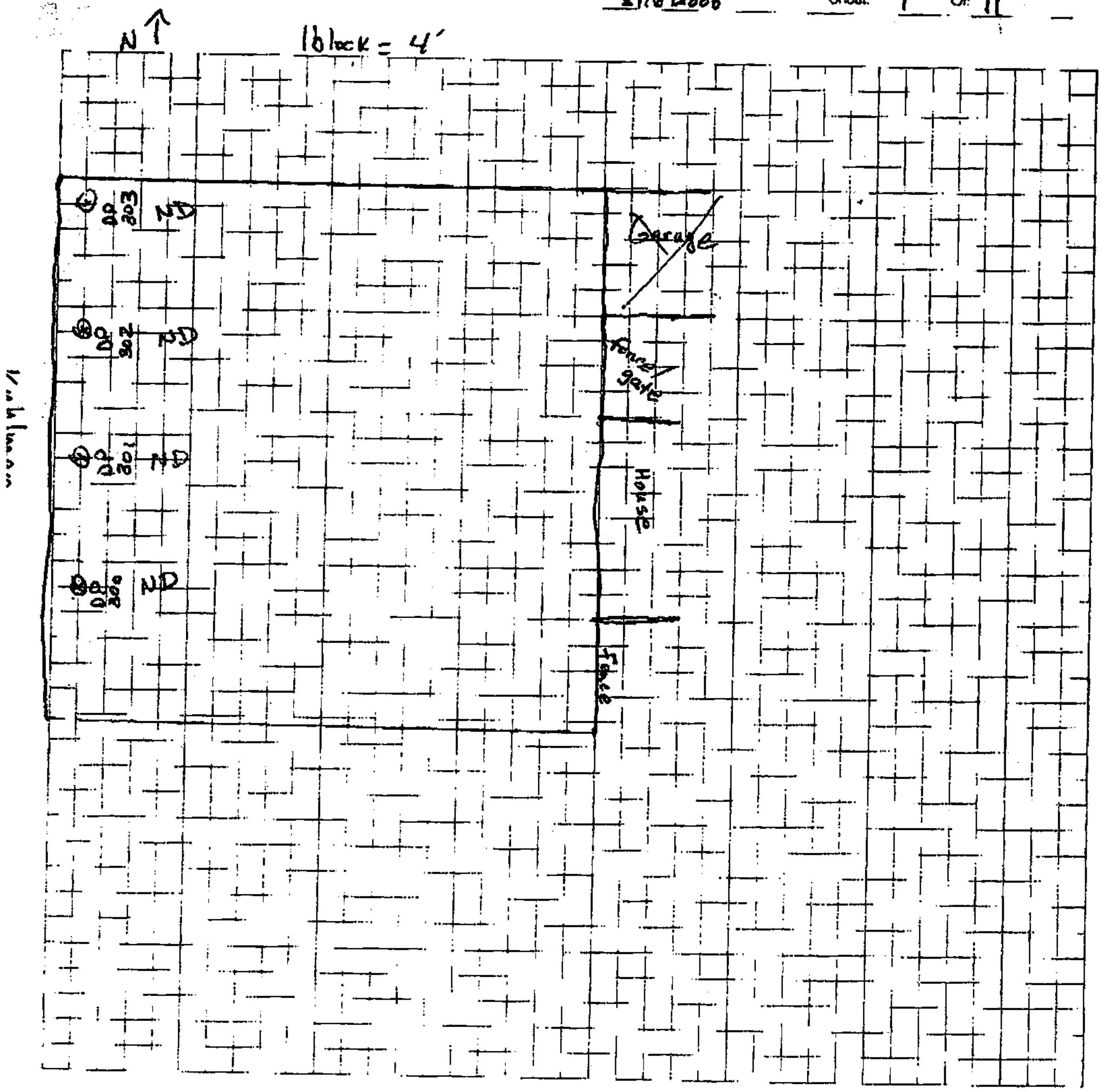
NO LCS/ MS/ MSD
Blank

Target Analyte	445 4 317	Ario 446 CS 318	446 4 319	Ario 447 OS 320	447 4 321	Blank #	LCS #	MS #	MSD #
1,3,5-TriCB		<0.01		<0.01					
1,2,4-TriCB									
1,2,3-TriCB									
1,2,3,5&1,2,4,5									
1,2,3,4-TeCB									
Penta-CB									
Hexa-CB									
PCB as 1260		0.12		0.18					
Surrogate TCMX		112		106					
DCBP		112		98.1					
EXT Date		20		20					

J = Estimated
E = Exceeds calibration range

OGDEN

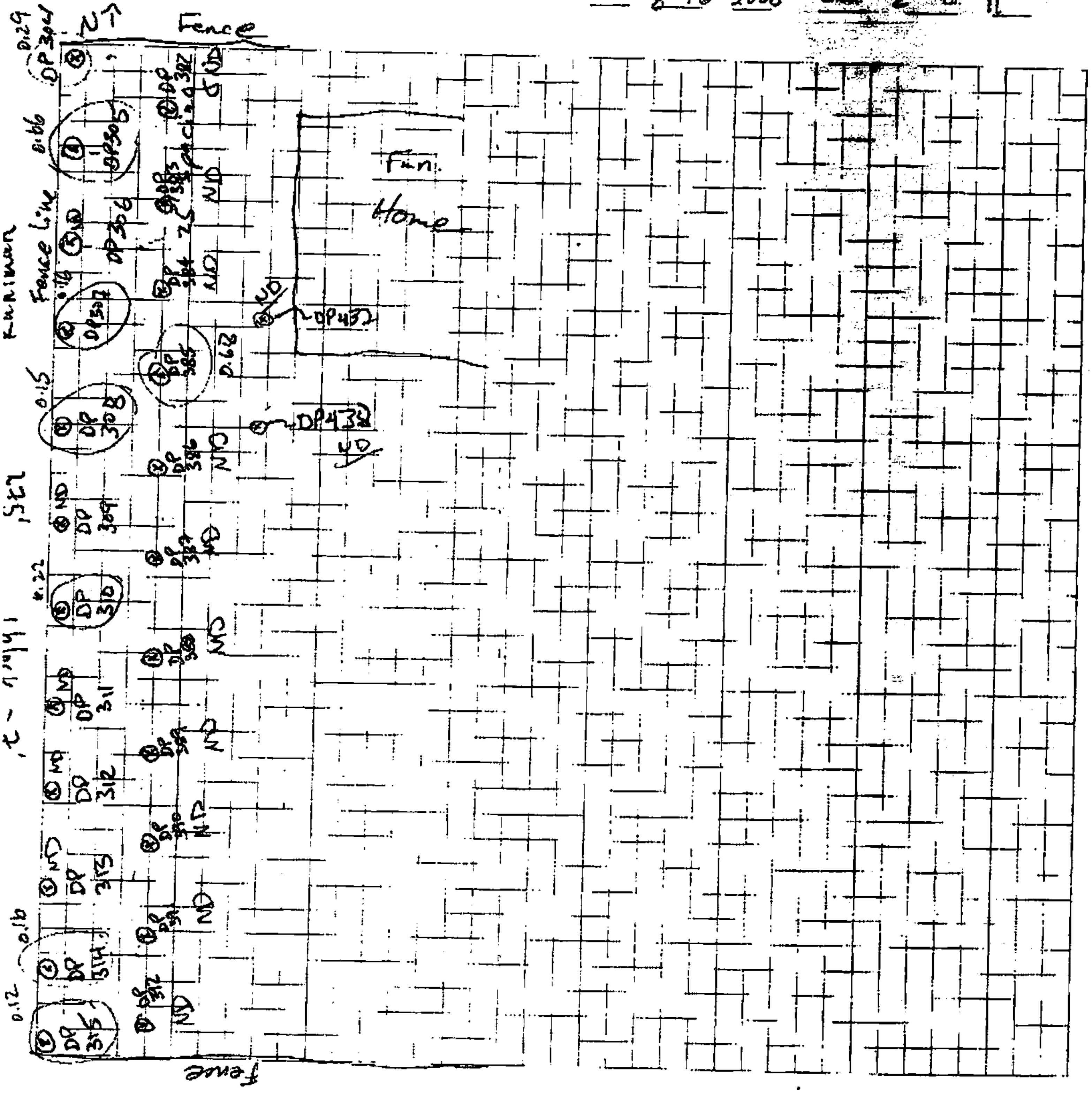
Job Name: Crystal Springs-
Job Number:
Title: Sonny Reeves backyard 405 Jackson
Computed by.
Checked by:
Date: 8/16/2000
Sheet: 1 Of: 11



OGDEN

280
200
7

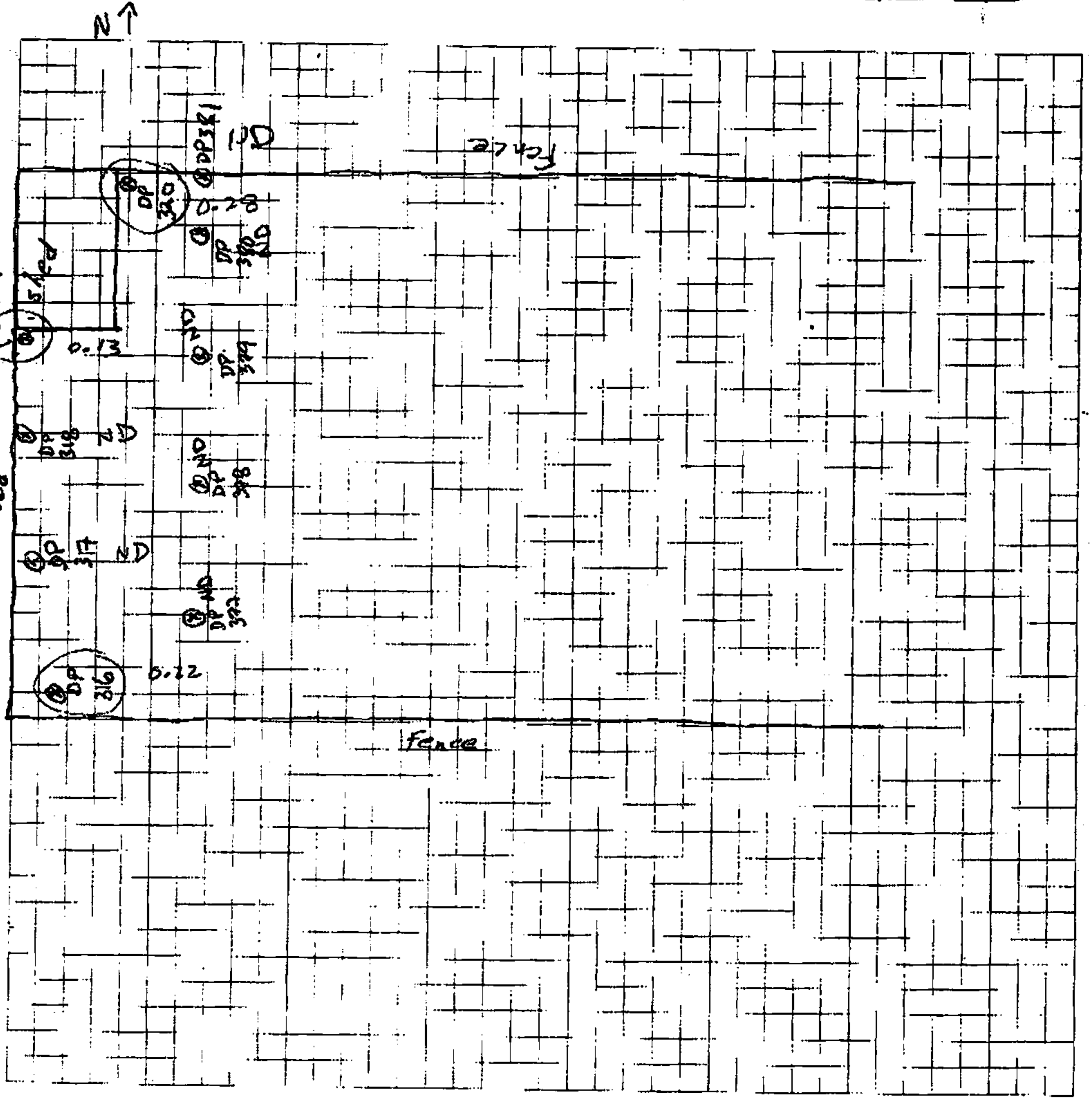
Job Name: Crystal Springs
Job Number:
Title: Stringer Funeral Home
Computed by:
Checked by:
Date: 8-16-2000 Sheet: 2 Of: 11



OGDEN

Job Name: Crystal Springs
Job Number:
Title: 401 N. Jackson Elner Wright
Computed by:
Checked by:
Date: 8-16-2000
Sheet: 3 Of: 11

1 block = 4'



OGDEN

Job Name: Crystal Springs

Job Number:

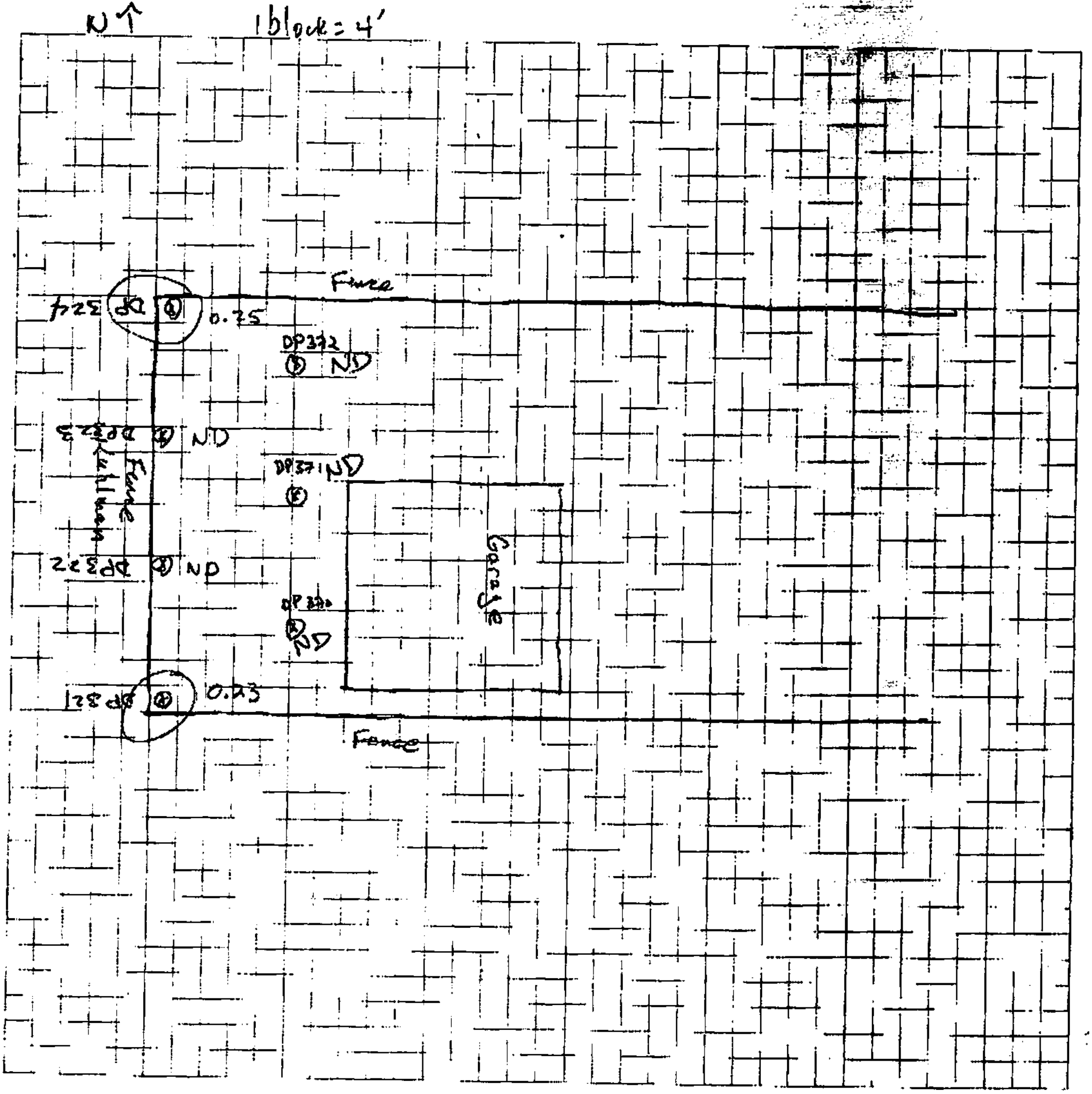
Title: 407 N. Jackson Louise Lang

Computed by:

Checked by:

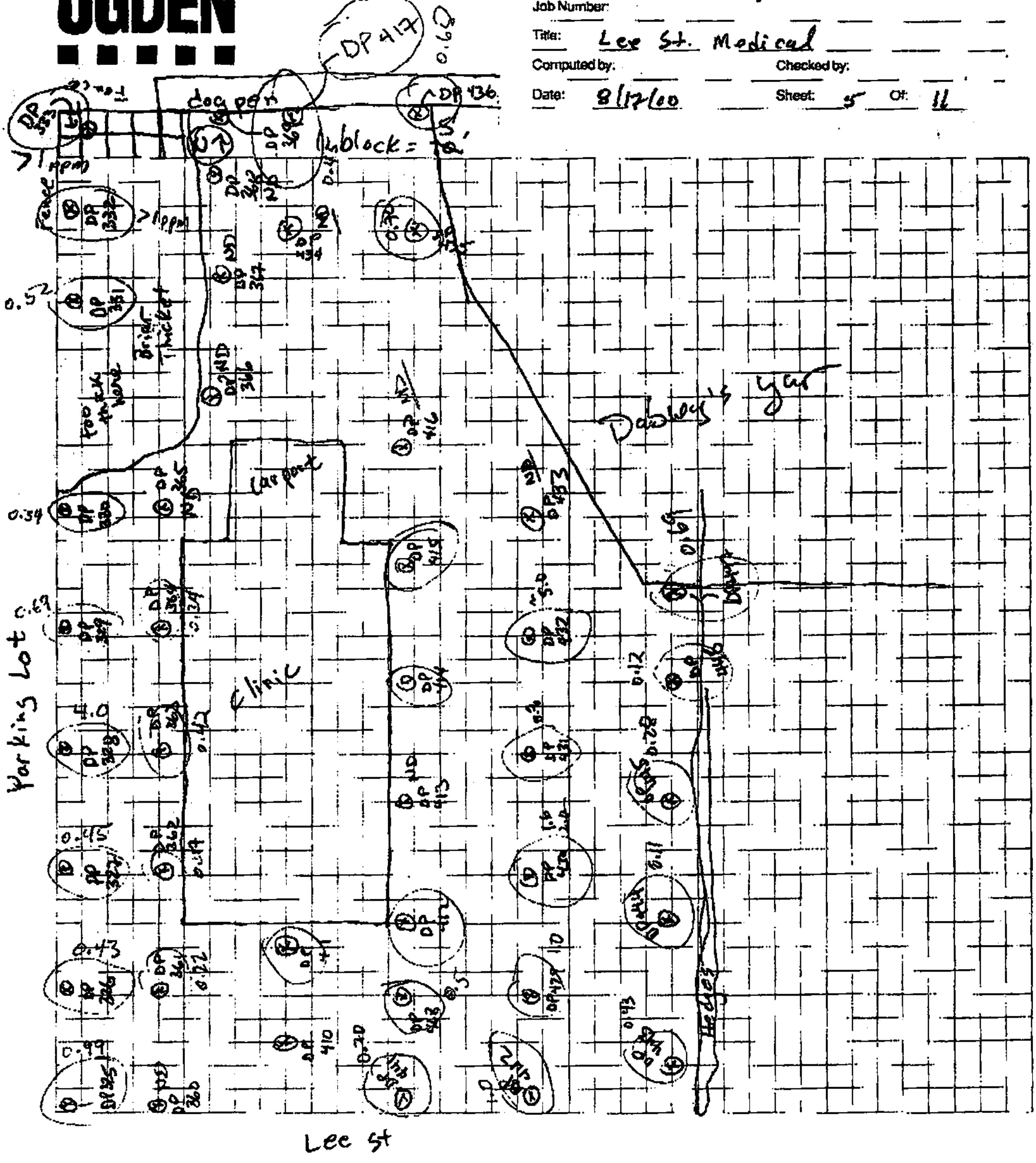
Date: 8-16-00

Sheet: 4? Of: 11



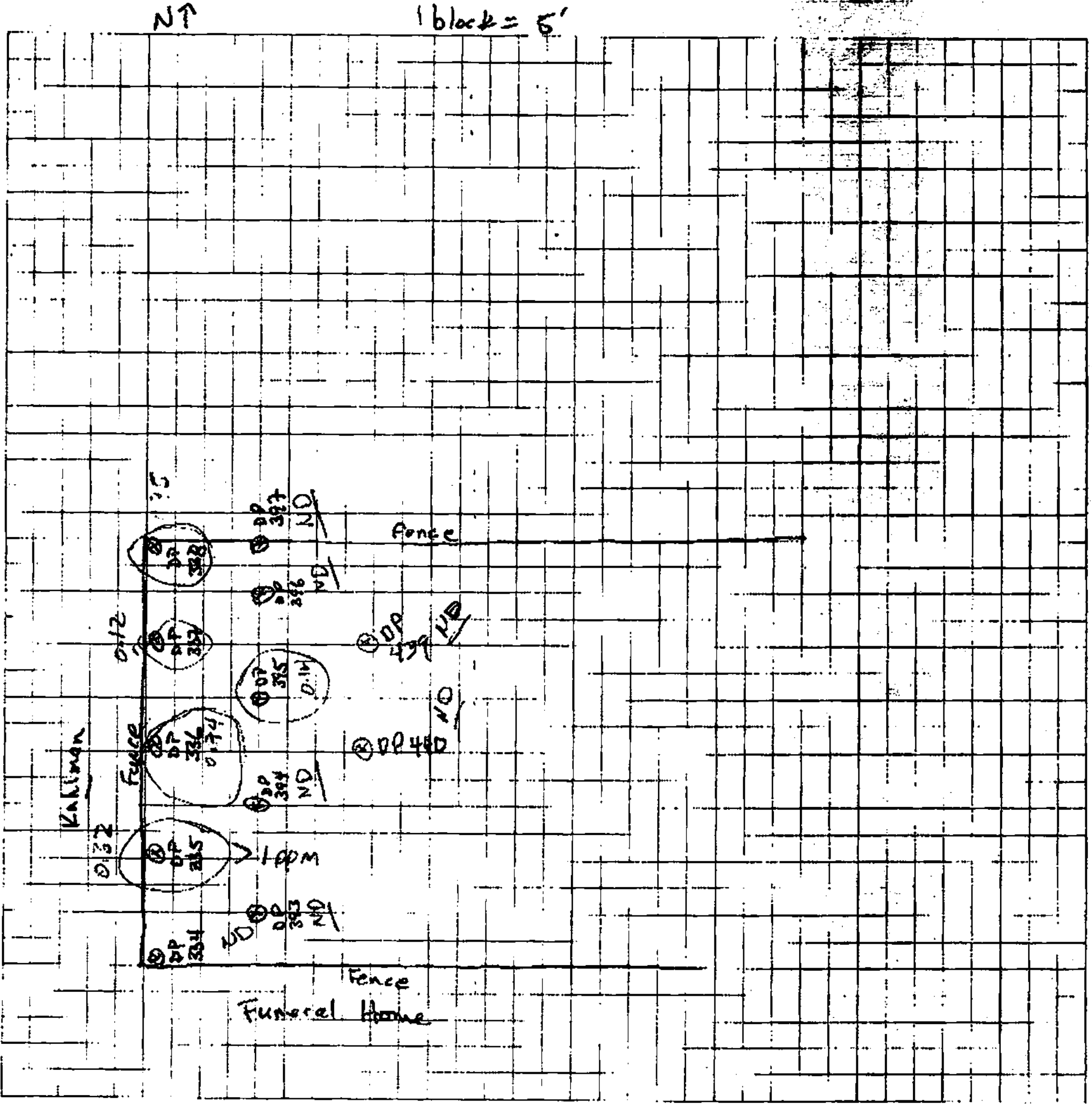
OGDEN

Job Name: Crystal Springs
Job Number:
Title: Lee St. Medical
Computed by:
Checked by:
Date: 8/17/00
Sheet: 5 Of: 11



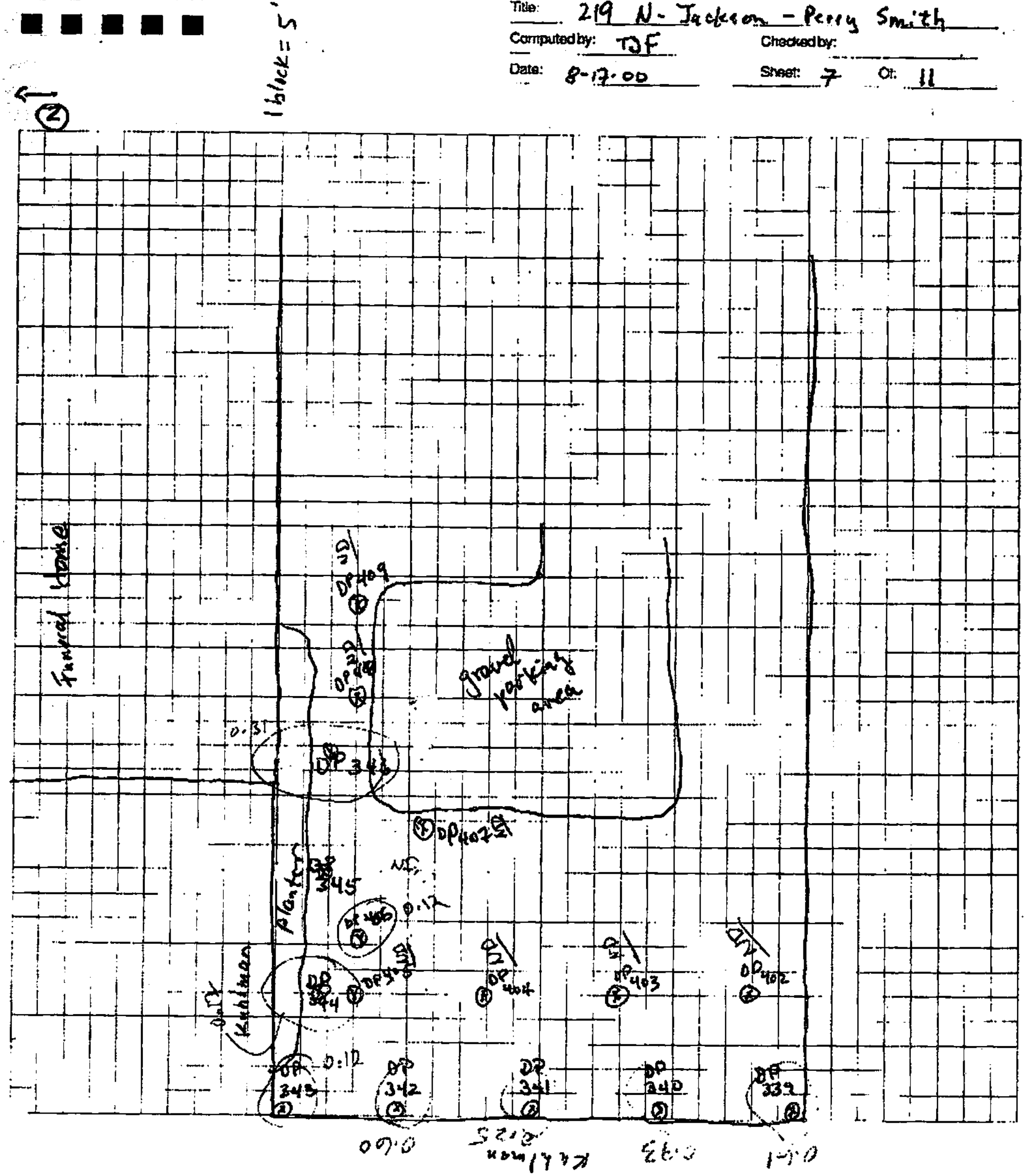
OGDEN

Job Name: Crystal Springs
Job Number:
Title: 303 N. Jackson (Stringer)
Computed by:
Checked by:
Date: 8-17-00
Sheet 6 Of 11



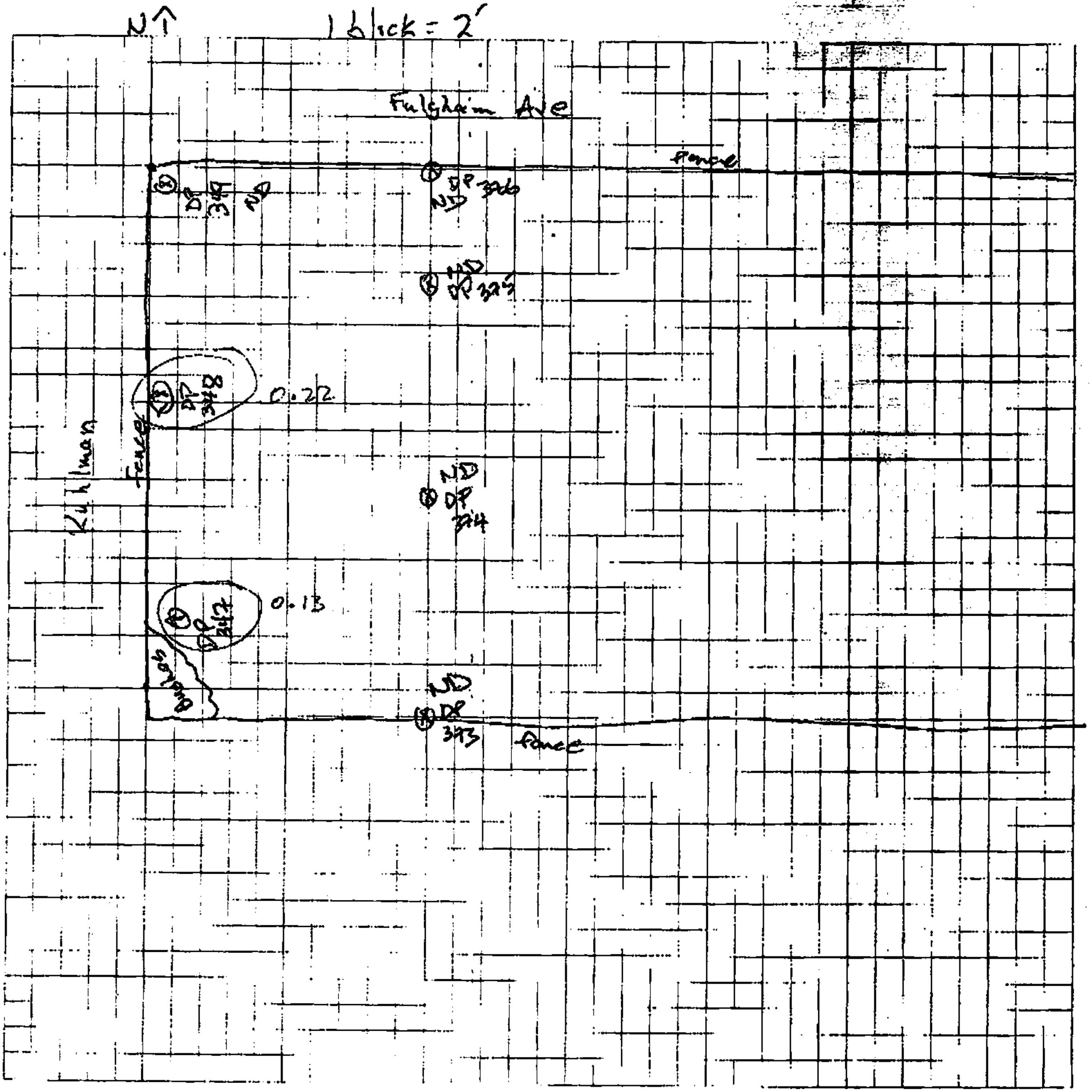
OGDEN

Job Name: Crystal Springs
Job Number:
Title: 219 N- Jackson - Perry Smith
Computed by: TJF
Checked by:
Date: 8-17-00
Sheet: 7 Of: 11



OGDEN

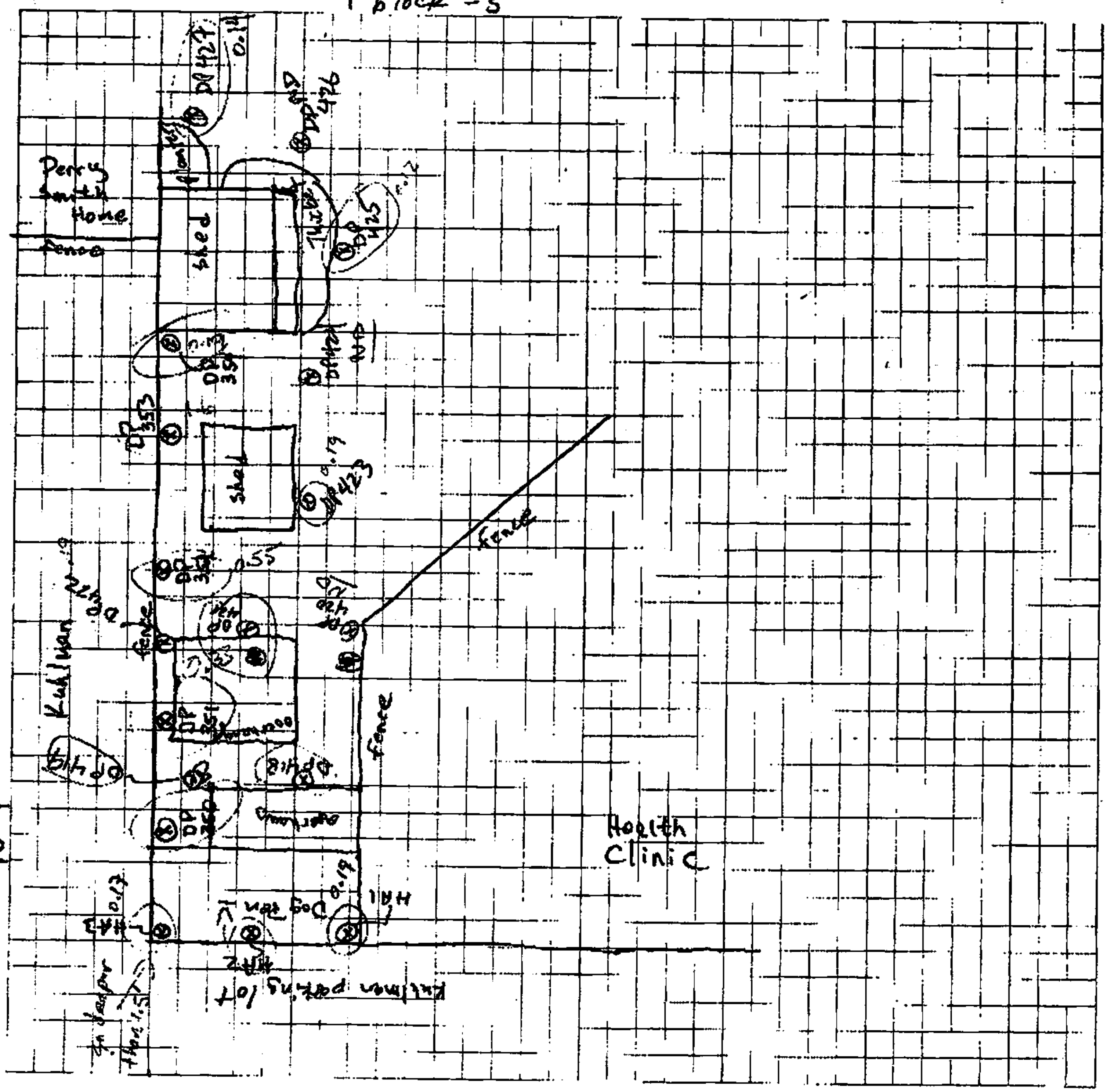
Job Name: Crystal Springs
Job Number:
Title: 409 N. Jackson ([illegible] Cooper)
Computed by: RF
Checked by:
Date: 8-17-00
Sheet: 8 Of: 11



OGDEN

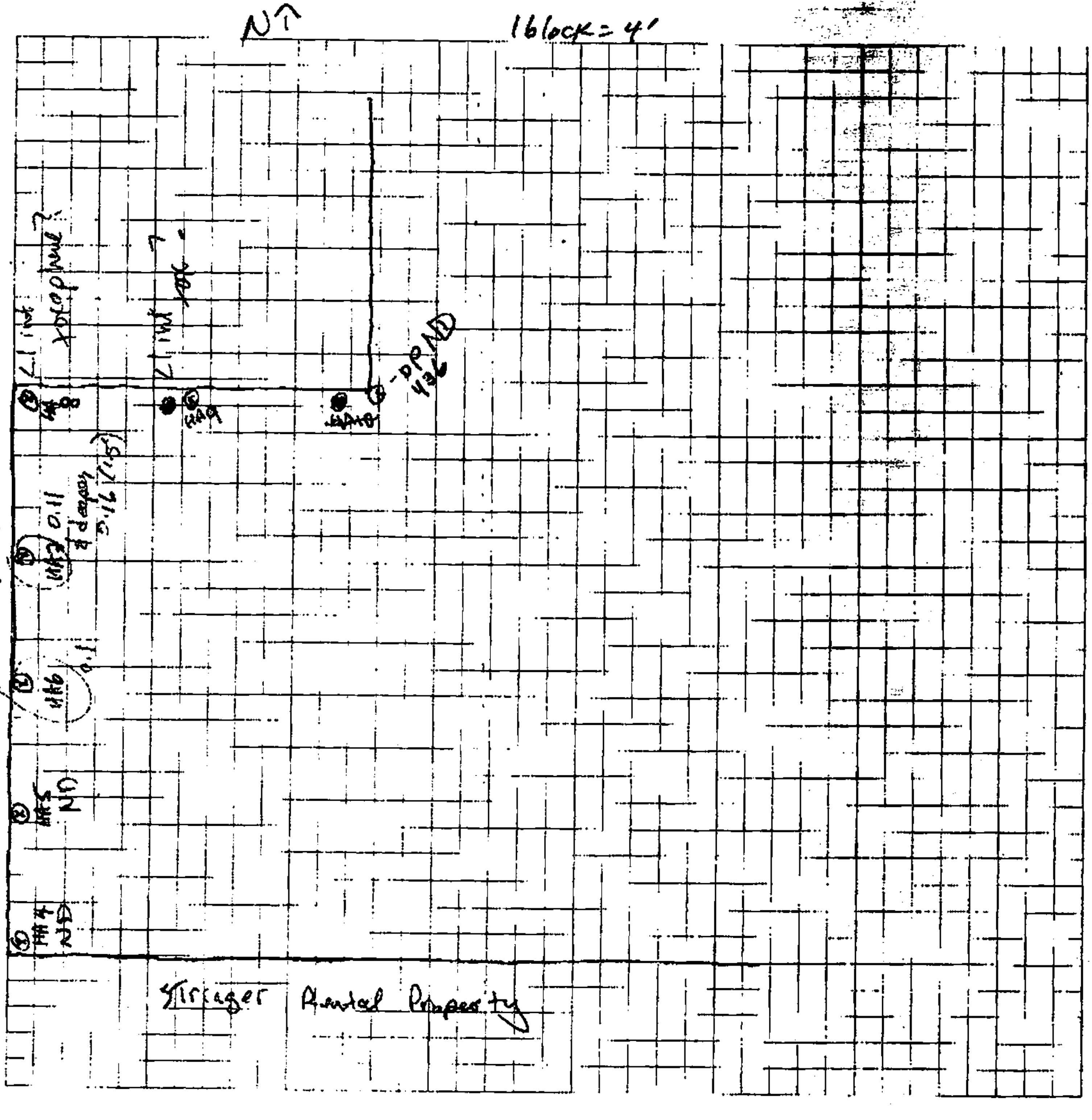
Job Name: Crystal Springs
Job Number:
Title: Dabney Home
Computed by: TJF Checked by:
Date: 8-17-00 Sheet: 9 Of: 11

1 block = 5'



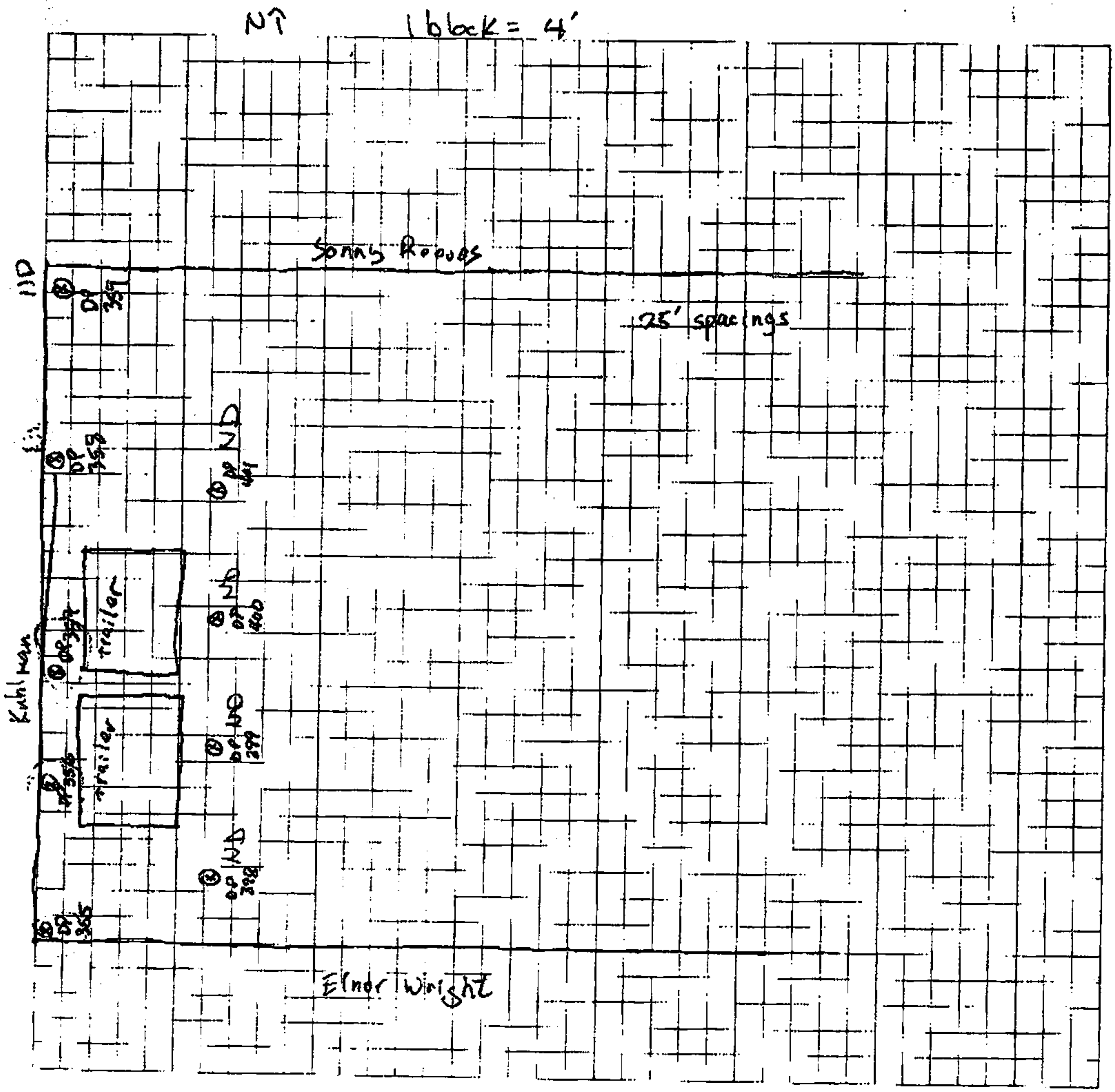
OGDEN

Job Name: Crystal Springs
Job Number:
Title: Wright House [illegible]
Computed by:
Checked by:
Date: 8-18-00
Sheet: 10 Of: 11



OGDEN

Job Name: Crystal Springs
Job Number:
Title: Harold & Suzanne Warren
Computed by: TJF
Checked by:
Date: 8-18-00
Sheet: 11 Of: 11



Dabney

OGDEN

Job Name:
Job Number:
Title:
Computed by:
Checked by:
Date:
Sheet:
Of:

FILE COPY

Fax Coversheet

To: Gretchin Zmitrovich
MDEQ

19 pages total

From: Tim Fitzpatrick
Ogden Environmental

Re: Crystal Springs Data Summary

Ms. Zmitrovich:

Following is all the data available as of 5:30 PM on Friday Aug 18. The mobile lab had autosampler malfunctions the previous two nights and are thus still somewhat behind. We will be working through the weekend and you can reach me on my cell at 704-236-3496 if you like.

Best Regards,

Tim Fitzpatrick

Page 1 of 3

Sample Tracking Form

Date: 16AU00

			ACID		ACID		ACID				AC Sample Description
Target Analyte	DP300 05 4	DP300 4 5	DP301 0.5 6	DP301 4 7	DP302 0.5 8	DP302 4 9	DP303 0.5 10	DP303 40 11	DP304 0.5 12	DP304 4 13
1,3,5-TrCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-TrCB										
1,2,3-TrCB										
1,2,3,5&1,2,4,5										
1,2,3,4-TeCB										
Penta-CB										
Hexa-CB										
PCB as 1260	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.29	<0.10
Surrogate TCMX	99.6	105	129	104	135	106	137	111	102	85.1
DCBP	89.5	100	96.9	101	125	115	130	109	87.9	83.9
	TRACE 1260					3 UNKS by TCMX				

	AC Sample Description				ACID		ACID		ACID				ACID	ACID
Target Analyte	DP305 0.5 14	DP305 4 15	DP306 0.5 16	DP306 4 17	DP307 0.5 18	DP307 4 19	DP308 0.5 20	DP308 4 21	DP309 0.5 22	DP309 4 23	Blank #2	LCS #2	8 MS #	8 MSD #
1,3,5-TrCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	99	145	146
1,2,4-TrCB												99	141	142
1,2,3-TrCB												99	140	141
1,2,3,5&1,2,4,5												102	141	143
1,2,3,4-TeCB												102	139	141
Penta-CB												106	138	140
Hexa-CB												107	135	~~136~~ 127
PCB as 1260	0.66	<0.10	<0.10	<0.10	0.16	<0.10	0.15	<0.10	<0.10	<0.10	<0.10	103	131	~~136~~ 132
Surrogate TCMX	131	97.0	104	91.8	139	118	137	108	137	104	111	104	135	136
DCBP	129	99.4	101	95.0	140	116	133	107	132	103	111	107	120	130
	TWO OFFSCALE UI PEAKS AFTER HCB UNKS [illegible] [illegible] ~~1260~~		TRACE 1260						TRACE 1260					

1248?
1260

J = Estimated
E = Exceeds calibration range

Page 2 of 3

Sample Tracking Form

Date: Aug 16 2000

DP310

R Sample Description

Target Analyte	~~PP310~~ 0.5 24	PP310 4 25	DP311 0.5 26	311 4 27	312 0.5 28	312 4 29	313 0.5 30	313 4 31	314 0.5 32	314 4 33	315 0.5 34	315 4 35	316 0.5 36	316 4 37	317 0.5 38	317 4 39	318 0.5 40	318 4 41	319 0.5 42	319 4 43	~~30~~ Blank #3	~~30~~ LCS #3	MS #30	MSD #30
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	97.4	100	104
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	98.0	101	105
1,2,3-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	97.0	100	105
1,2,3,5&1,2,4,5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	99.5	103	107
1,2,3,4-TeCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	99.4	103	107
Penta-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	101	106	108
Hexa-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	103	108	109
PCB as 1260	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.16	<0.10	~~0.22~~ 0.12	<0.10	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	0.13	<0.10	<0.10	100	112	107
Surrogate rec	101	83.8	96	74	111	93	110	107	112	99	134	107	127	98.0	107	103	109	102	106	112	104	100	103	107
DCBP	115	102	91	79	103	106	109	114	112	105	128	112	129	101	106	107	106	111	108	120	112	107	109	107
			TRACE 1260		TRACE 1260										TRACE 1248 or 1254		TRACE 1260							

J = Estimated
E = Exceeds calibration range

Page 3 of 3

Sample Tracking Form

Date: 16AU 2000

Target Analyte	ACID 320 0.5 44	320 4 45	ACID 321 0.5 46	321 2 47	321 4 48	322 0.5 49	322 4 50	323 0.5 51	323 4 52	324 0.5 53	324 4 54	Blank #4	LCS #4	ACID MS #44	ACID MSD #44
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	104	150	147
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	104	147	145
1,2,3-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	104	145	143
1,2,3,5&1,2,4,5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	103	147	145
1,2,3,4-TeCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	104	143	141
Penta-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	105	143	141
Hexa-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	102	140	138
PCB as 1260	0.28	<0.10	0.23	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.25	<0.10	<0.10	102	161	~~137~~ 16
Surrogate TCMX	141	112	134	107	93.7	103	105	106	104	99.6	107	111	101	139	133
DBP	155	117	137	111	105	110	116	109	113	104	107	122	104	147	149
			OC					TRACE							
			PEAK					1260							
			BY												
			[illegible]												

J = Estimated
E = Exceeds calibration range

Page 1 of 3

Sample Tracking Form

pkwr 1-2 PIL 1-5

Date: August 17, 2000

	ACID						ACID						ACID		ACID		ACID						ACID	ACID
Target Analyte	325 0.5 55	325 4 56	326 0.5 57	326 4 58	327 0.5 59	327 4 60	328 0.5 61	328 4 62	329 0.5 63	329 4 64	330 0.5 65	330 4 66	331 0.5 67	331 4 68	332 0.5 69	332 4 70	333 0.5 71	333 4 72	334 0.5 73	334 4 74	Blank #5	LCS #5	MS #61	MSD #61
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	99.8	149	152
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	99.4	149	150
1,2,3-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	98.4	147	148
1,2,3,5&1,2,4,5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	98.4	149	150
1,2,3,4-TeCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	97.0	148	148
Penta-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	98.4	147	147
Hexa-CB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	96.8	141	141
PCB as 1260	0.99	<0.10	0.43	<0.10	0.45	<0.10	4.0	<0.10	0.69	<0.10	0.34	<0.10	0.52	<0.10		<0.10		<0.10	<0.10	<0.10	<0.10	108	120	122
Surrogate TCMX	143	103	109	104	109	109	145	104	103	108	107	107	132	104	133	100	137	103	104	105	103	97.4	147	143
DCBP	132	103	107	117	113	115	156	107	103	110	105	110	134	110	140	108	127	113	110	114	116	128	152	137
					0.2																			
		TRACE			Peak						0.2					TRACE			Trace					
		1260			AT						PEAK					1260			1260					
					7.789						AT													
											7.782													
INT. Date																				18	18	18		

J = Est[illegible]d

Page 1 of 2

Sample Tracking Form

Date: August 11, 2000

Target Analyte	ACD						ACD		ACD			Sample Description	ACD		ACD								ACD	ACD
	335 0.5 75	335 4 76	336 ~~0.5~~ 4 78 ~~77~~	336 ~~4~~ 0.5 77 ~~78~~	337 0.5 79	337 4 80	338 0.5 81	338 4 82	339 0.5 83	339 4 84	340 0.5 85	340 4 86	341 0.5 87	341 4 88	342 0.5 89	342 4 90	343 0.5 91	343 4 92	344 0.5 93	344 4 94	Blank # 6	LCS # 6	1-20 Dil MS # 75	MSD # 75
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01									<0.01	<0.01	<0.01	<0.01	<0.01	97.6	148	146
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓									↓	↓	↓	↓	↓	98.6	146	145
1,2,3-TriCB	↓	↓	↓	↓	↓	↓	↓	↓									↓	↓	↓	↓	↓	98.2	144	143
1,2,3,5&1,2,4,5	↓	↓	↓	↓	↓	↓	↓	↓									↓	↓	↓	↓	↓	97.9	146	144
1,2,3,4-TeCB	↓	↓	↓	↓	↓	↓	↓	↓									↓	↓	↓	↓	↓	97.6	144	142
Penta-CB	↓	↓	↓	↓	↓	↓	↓	↓									↓	↓	↓	↓	↓	98.6	144	142
Hexa-CB	✓	✓	✓	✓	✓	✓	✓	✓									✓	✓	✓	✓	✓	97.8	139	138
PCB as 1260	0.32	<0.10	<0.10	0.74	0.12	<0.10	0.75	<0.10									0.12	<0.10	0.17	<0.10	<0.10	97.0		134
Surrogate TCMX	128	107	105	111	110	103	139	110									102	99.3	104	103	100	98.2	141	140
DCBP	142	117	115	112	123	109	162	117									102	114	108	110	130	110	162	158
IDS Date	18	18	18	18	18	18	16	16									18	18	18	18	18	18	18	18

J = Estima[illegible]
E = Exceed[illegible]libration range

Sample Tracking Form

Page 2 of ~~4~~ 3

Date: 17AUG00

Target Analyte	ACID Sample Description																				Blank	LCS	MS	MSD
	345 0.5 95	345 4 96	346 0.5 97	346 4 98	347 0.5 99	347 4 100	348 0.5 101	348 4 102	349 0.5 103	349 4 104	Smpl 15 105	Smpl 545 106	~~350 0.5 107~~	~~350 4 108~~	~~351 0.5 109~~	~~351 4 110~~	~~352 0.5 111~~	~~352 4 112~~	~~353 0.5 113~~	~~353 4 114~~	#7	#7	#95	#95
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01									<0.01	98.2	88.3	96.6
1,2,4-TriCB	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓									↓	98.4	85.8	96.2
1,2,3-TriCB																						97.2	87.6	96.0
1,2,3,5&1,2,4,5																						99.0	92.1	97.3
1,2,3,4-TeCB																						96.5	91.0	94.8
Penta-CB																						97.5	98.2	97.6
Hexa-CB																						100	101	102
PCB as 1260	<0.10	<0.10	0.31	<0.10	0.13	<0.10	0.22	<0.10	0.61	<0.10		<0.10									<0.10	104	110	98.9
Surrogate TCMX	106	99.9	99.3	98.7	98.7	99.6	94.5	95.4	122	90.0		89.8									114	98.3	94.9	99.8
DCBP	108	108	100	112	107	111	104	107	137	106		113									128	114	103	90.9
	TRACE 1260							~~OK~~ #1	U2 PEAK AFTER [illegible]															
[illegible]	18	18	18	18	18	18			18	18		19									18 17	18	18	18

J = Estim

AUGUST 00

Page 11 of ____

Sample Tracking Form

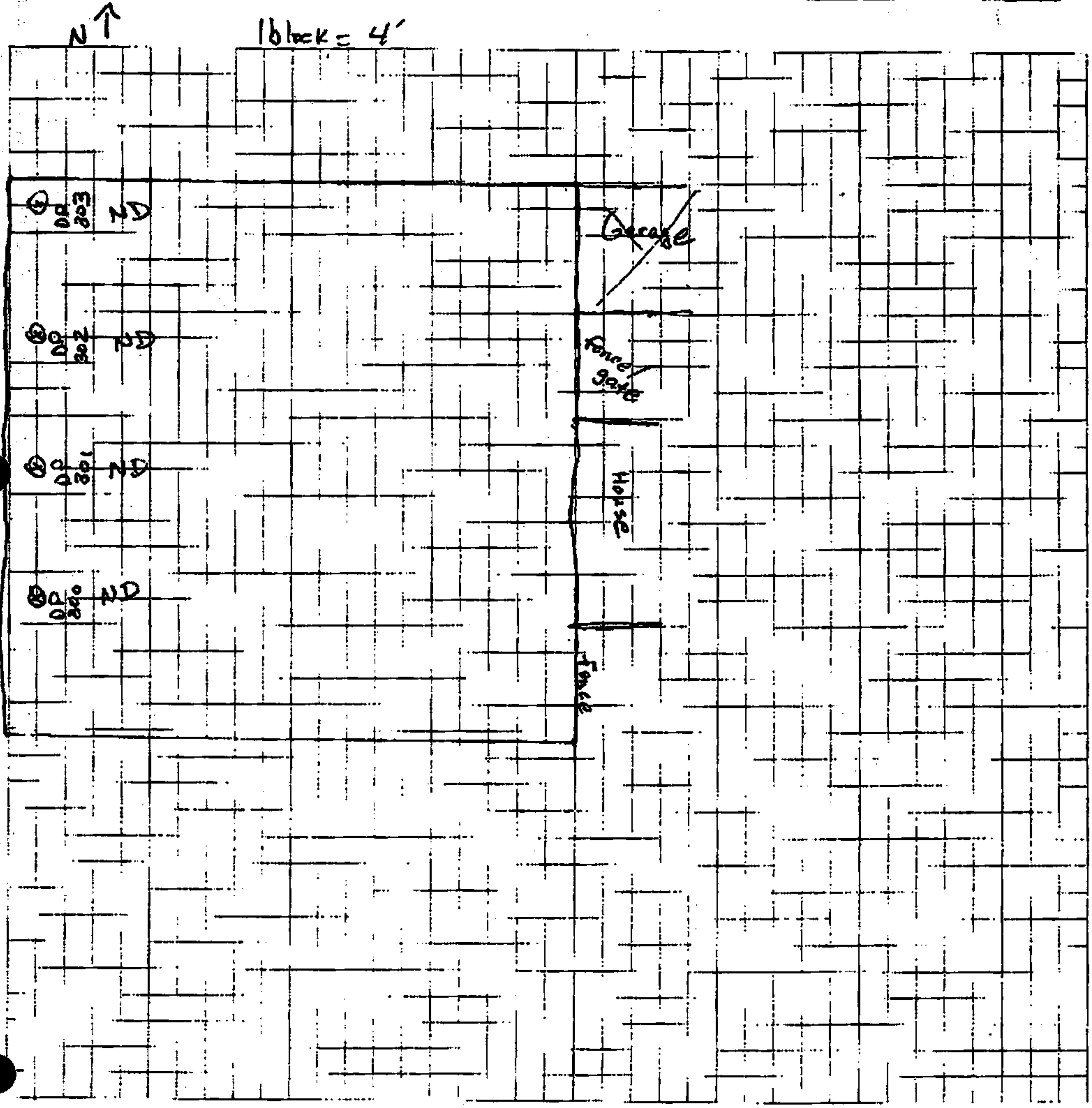
Date: 18 Aug 00

	ACID						ACID		ACID				ACID										ACID	ACID
	Sample Description																							
Target Analyte	350 0.5 107	350 4 108	351 0.5 109	351 4 110	352 0.5 111	352 4 112	353 0.5 113	353 4 114	354 0.5 115	354 4 116	HA-1 0.5 117	1 4 118	2 0.5 119	2 4 120	3 0.5 121	3 1.5 122	4 0.5 123	4 2.5 124	5 0.5 125	5 2.5 126	Blank #8	LCS #8	MS #107	MSD #107
1,3,5-TriCB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01																	140	137
1,2,4-TriCB	|	|	|	|	|	|																	135	135
1,2,3-TriCB	|	|	|	|	|	|																133	131
1,2,3,5&1,2,4,5	|	|	|	|	|	|																133	131
1,2,3,4-TeCB	|	|	|	|	|	|																126	124
Penta-CB	|	|	|	|	|	|																124	121
Hexa-CB	✓	✓	✓	✓	✓	✓																	124	122
PCB as 1260	1.8	<0.10	0.33	<0.10	0.55	<0.10																	121	~~117~~ 124
Surrogate TCMX	104	100	96.1	96.4	101	90.0																	124	117
DCBP	116	114	108	116	114	105																	138	129
INJ DATE	18	18	18	18	18	18																	18	18

J = Estin

OGDEN

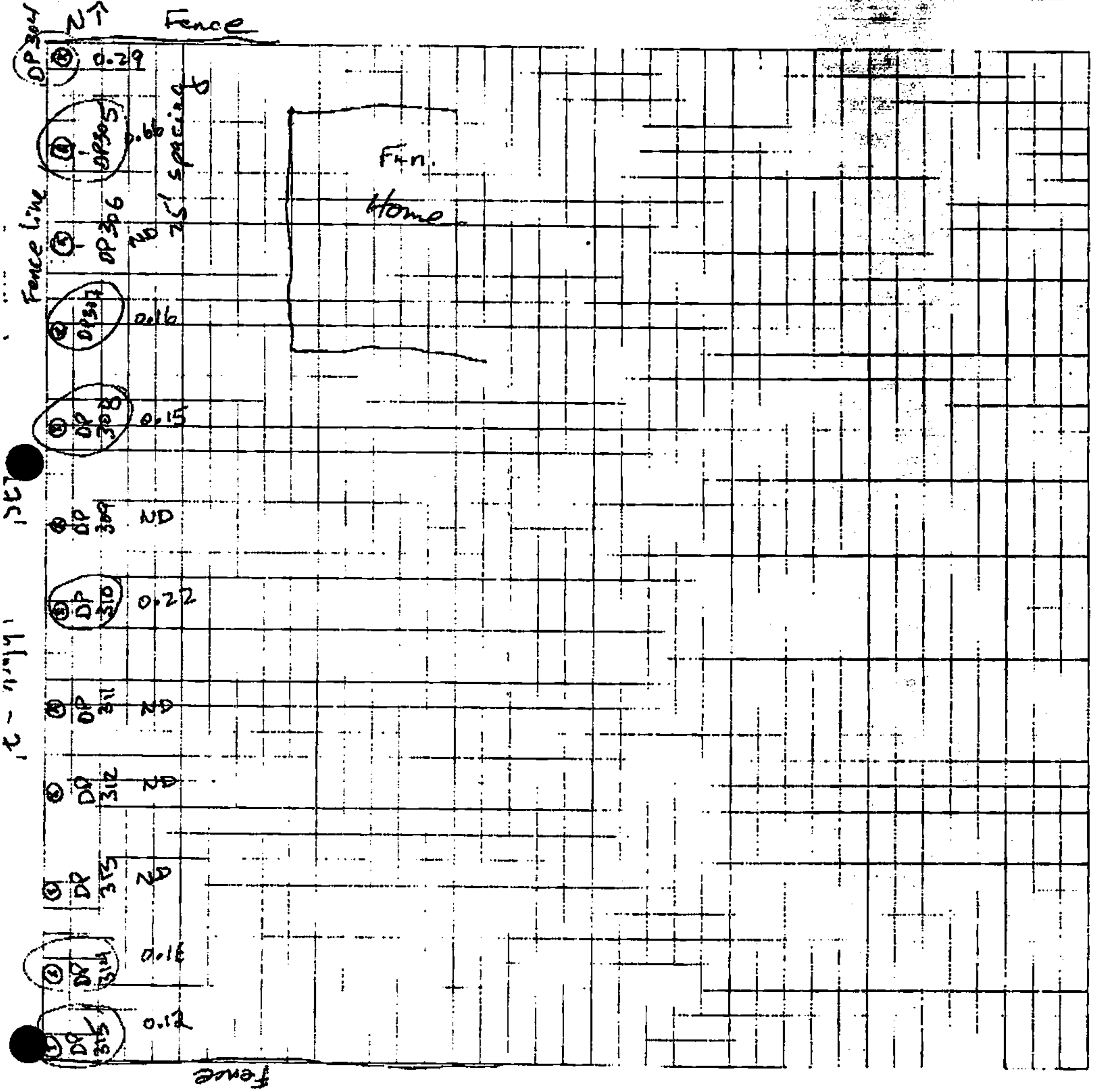
Job Name: Crystal Springs -
Job Number:
Title: Sonny Reeves backyard 405 Jackson
Computed by:
Checked by:
Date: 8/16/2000
Sheet: 1
Of: 11



OGDEN

~~DP 280~~
200
7

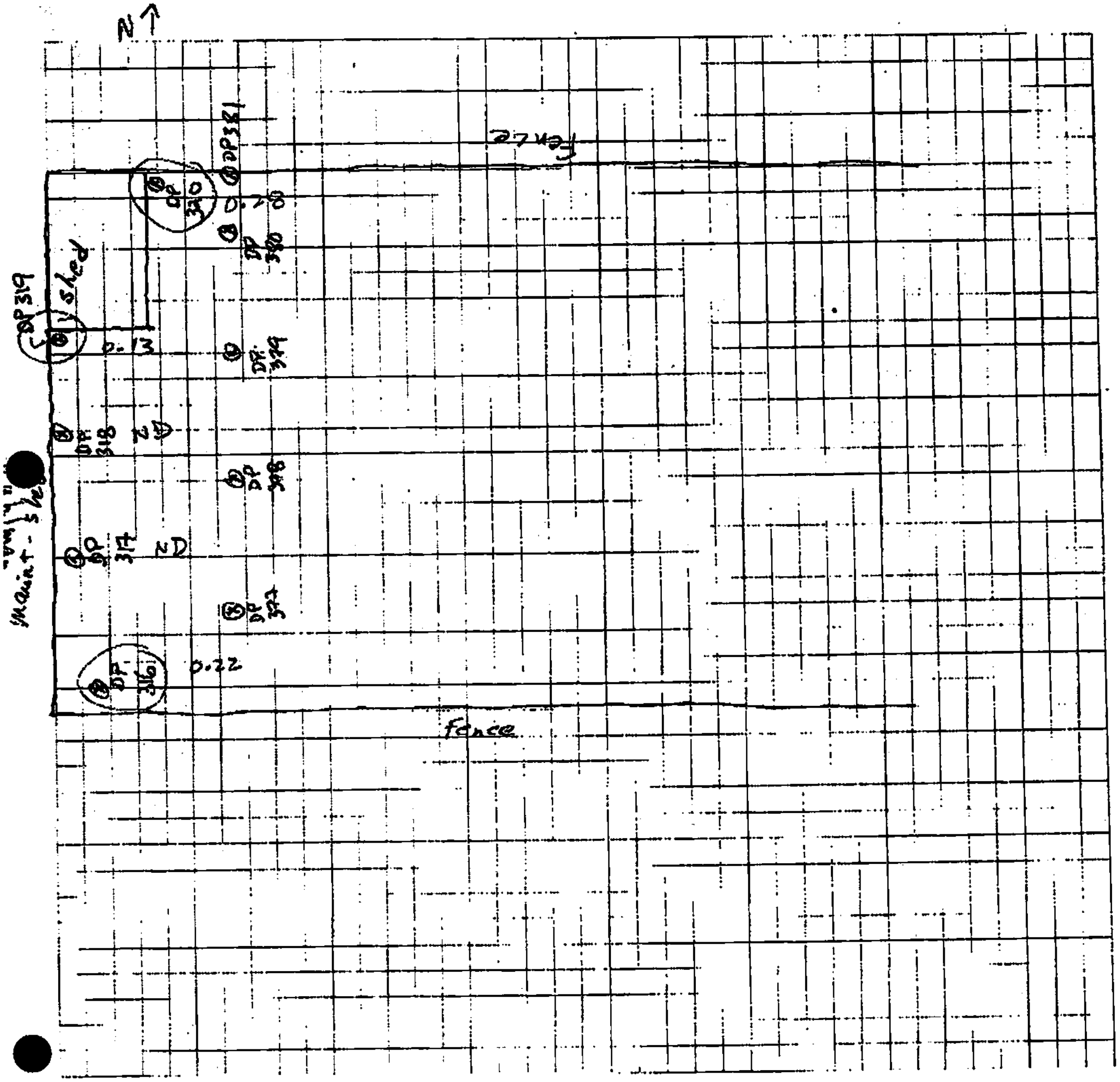
Job Name: Crystal Springs
Job Number:
Title: Stringer Funeral Home
Computed by:
Checked by:
Date:
Sheet: 2 Of: 11



OGDEN

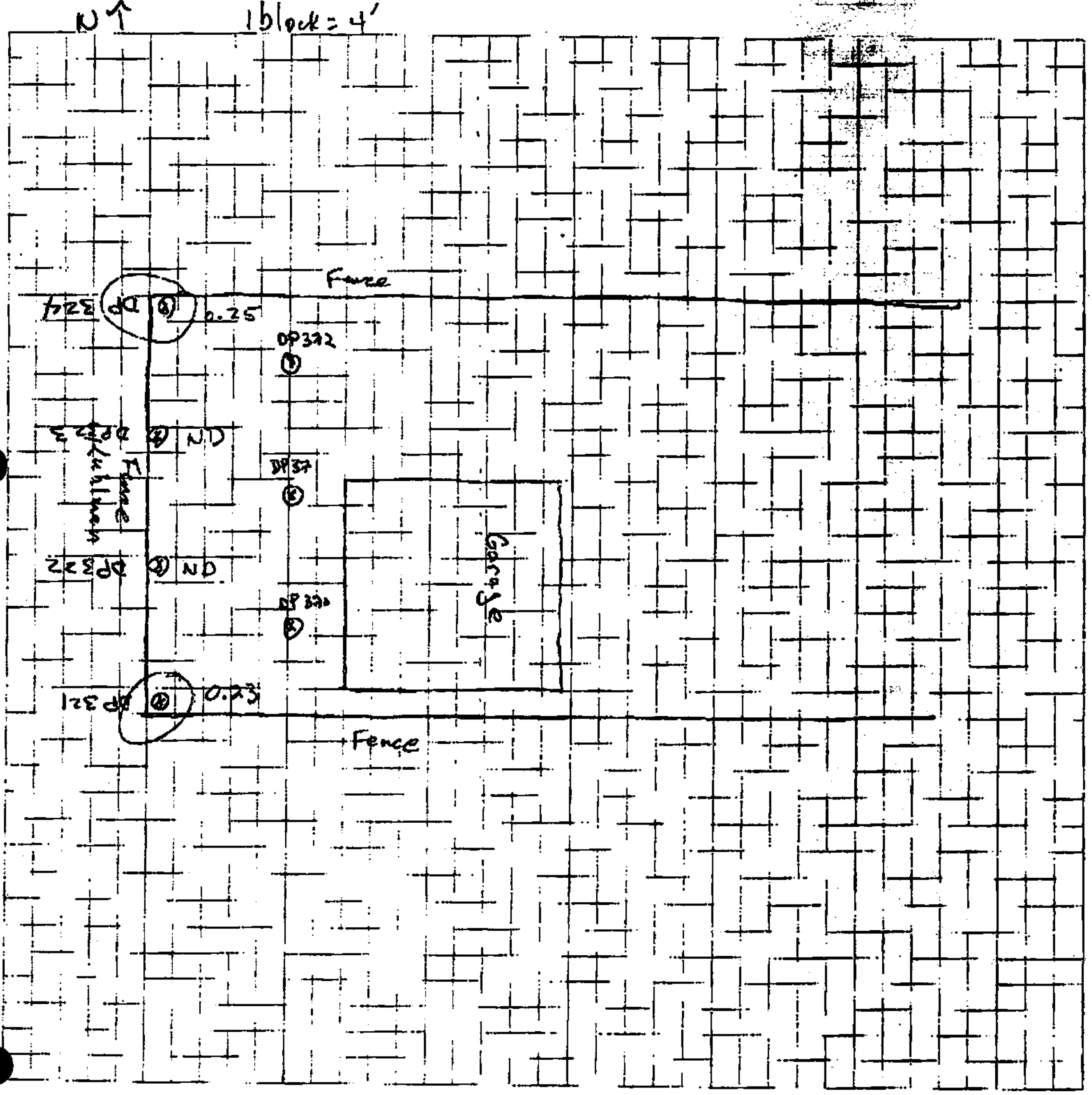
Job Name: Crystal Springs
Job Number:
Title: 401 N. Jackson Elnor Wright
Computed by:
Checked by:
Date: 8-16-2000
Sheet: 3 Of: 11

1 block = 4'



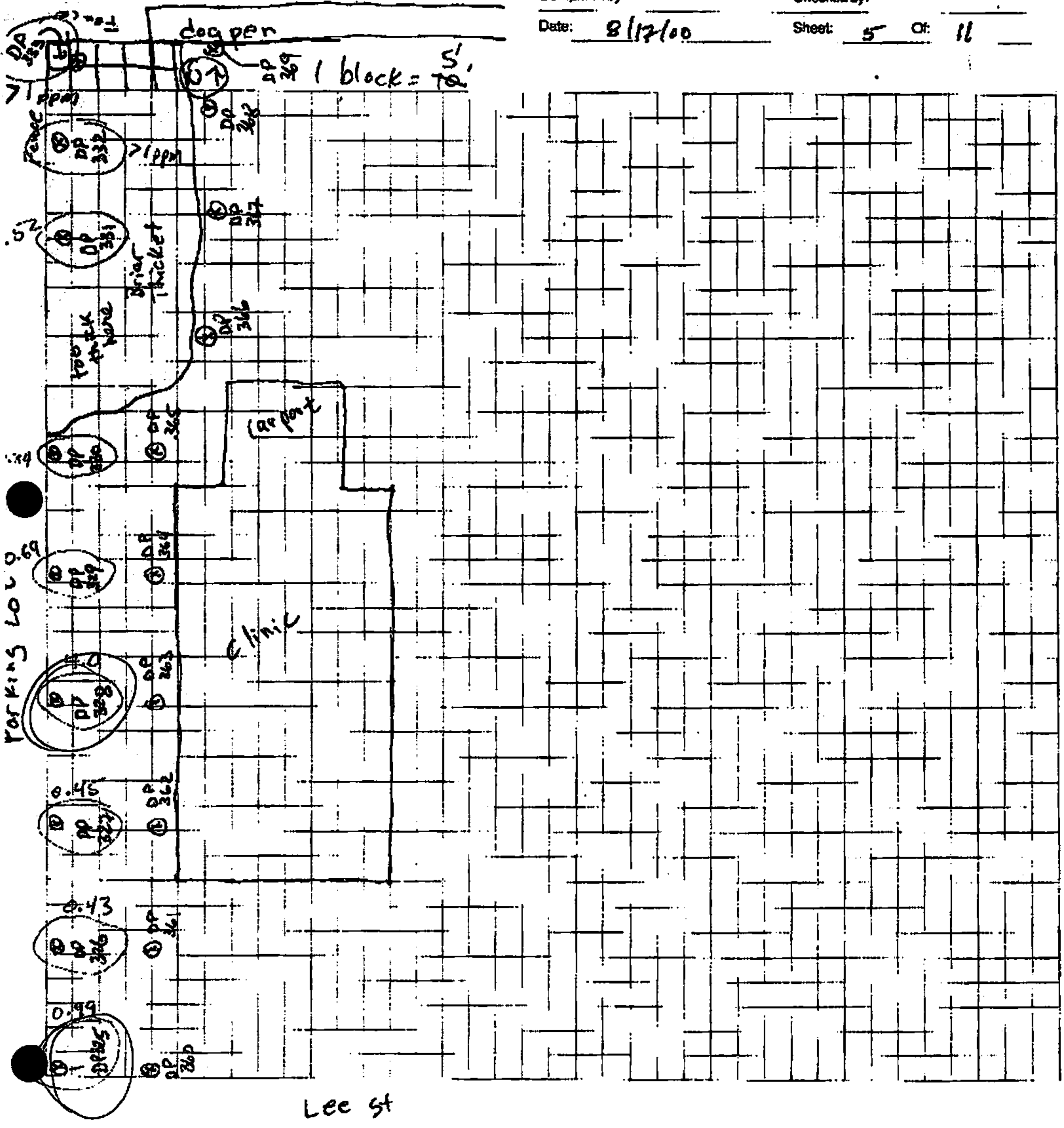
OGDEN

Job Name: Crystal Springs
Job Number:
Title: 407 N. Jackson [illegible] Lang
Computed by:
Checked by:
Date: 8-16-00
Sheet 4 Of: 11



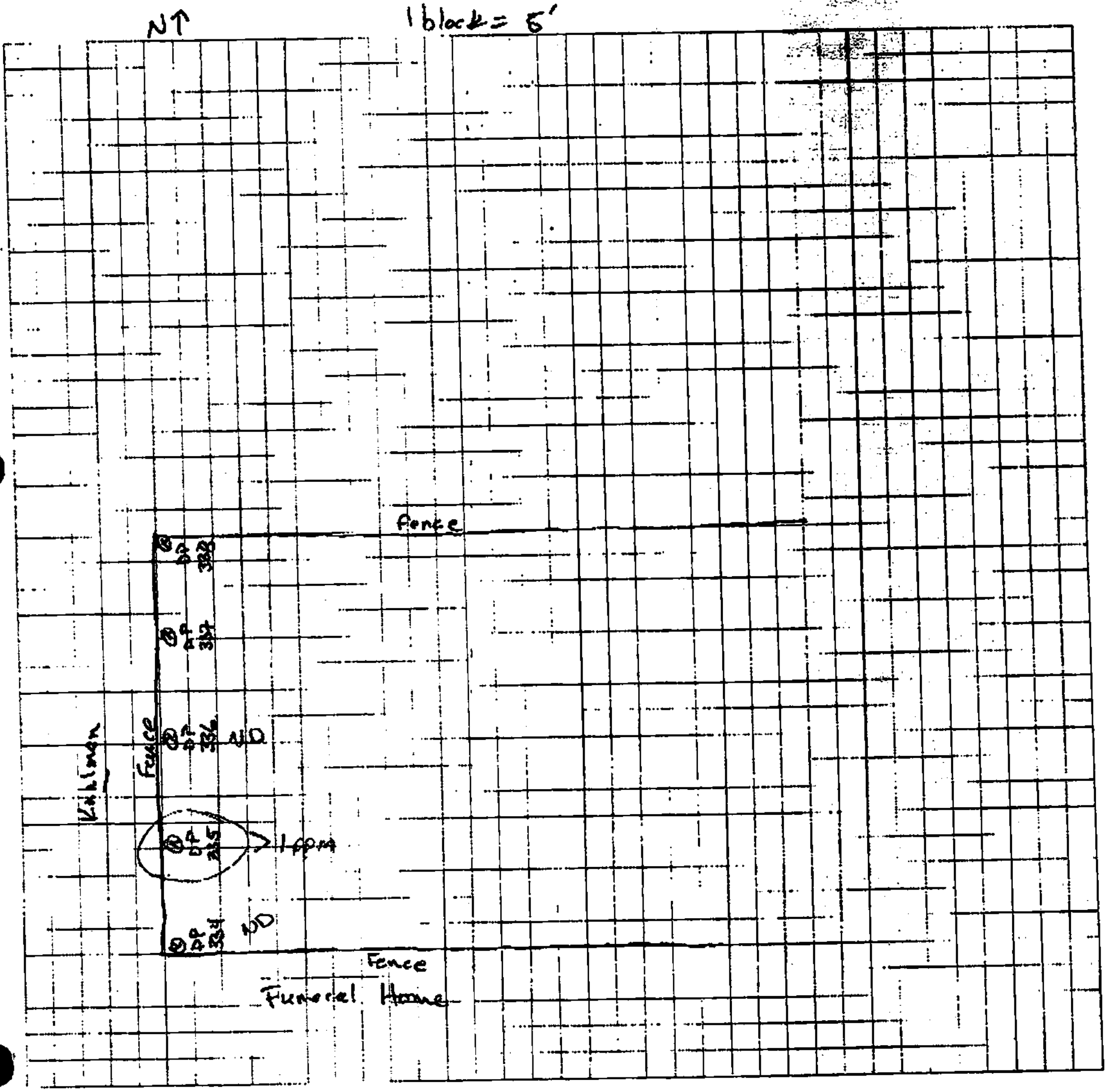
OGDEN

Job Name: Crystal Springs
Job Number:
Title: Lee St. Medical
Computed by:
Checked by:
Date: 8/17/00
Sheet: 5 Of: 11



OGDEN

Job Name: Crystal Springs
Job Number:
Title: 303 N. Jackson (Stringer)
Computed by:
Checked by:
Date: 8-17-00
Sheet: 6 Of: 11



OGDEN

Job Name: Crystal Springs

Job Number:

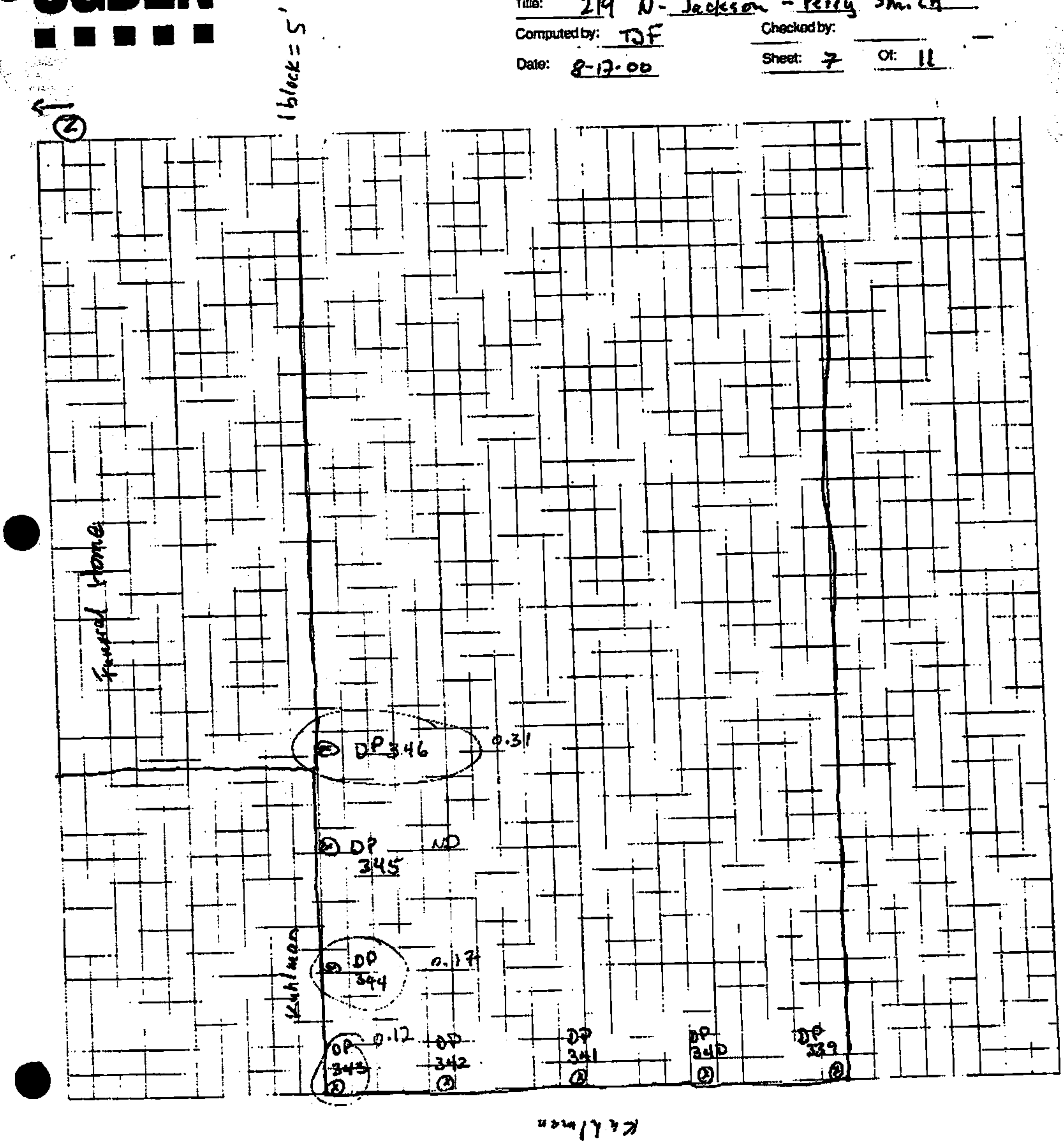
Title: 219 N- Jackson - Perry Smith

Computed by: TJF

Checked by:

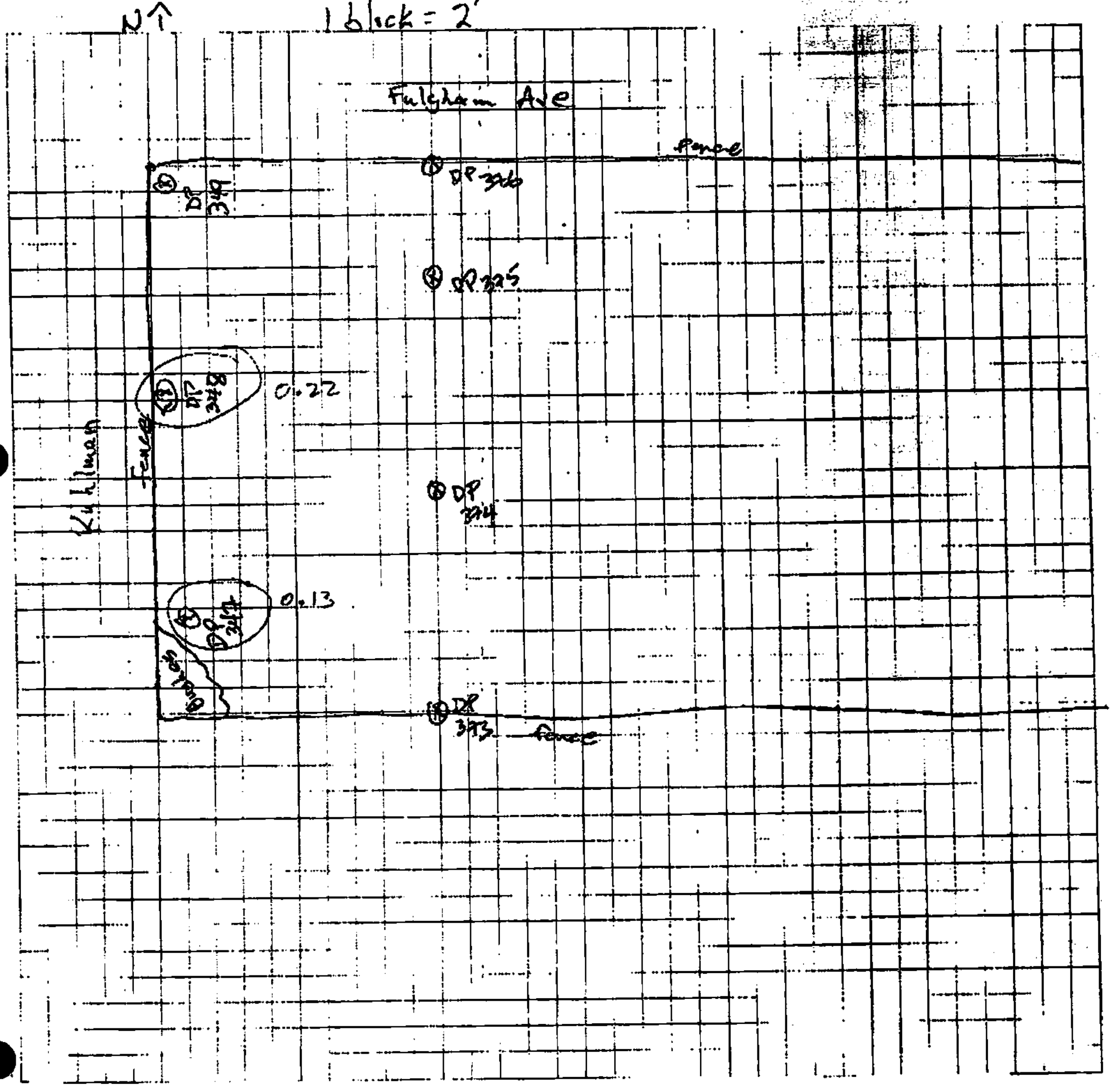
Date: 8-17-00

Sheet: 7 Of: 11



OGDEN

Job Name: Crystal Springs
Job Number:
Title: 409 N. Jackson ([illegible] Cooper)
Computed by: DF
Checked by:
Date: 8-17-00
Sheet: 8 Of: 11



OGDEN

Job Name: Crystal Springs

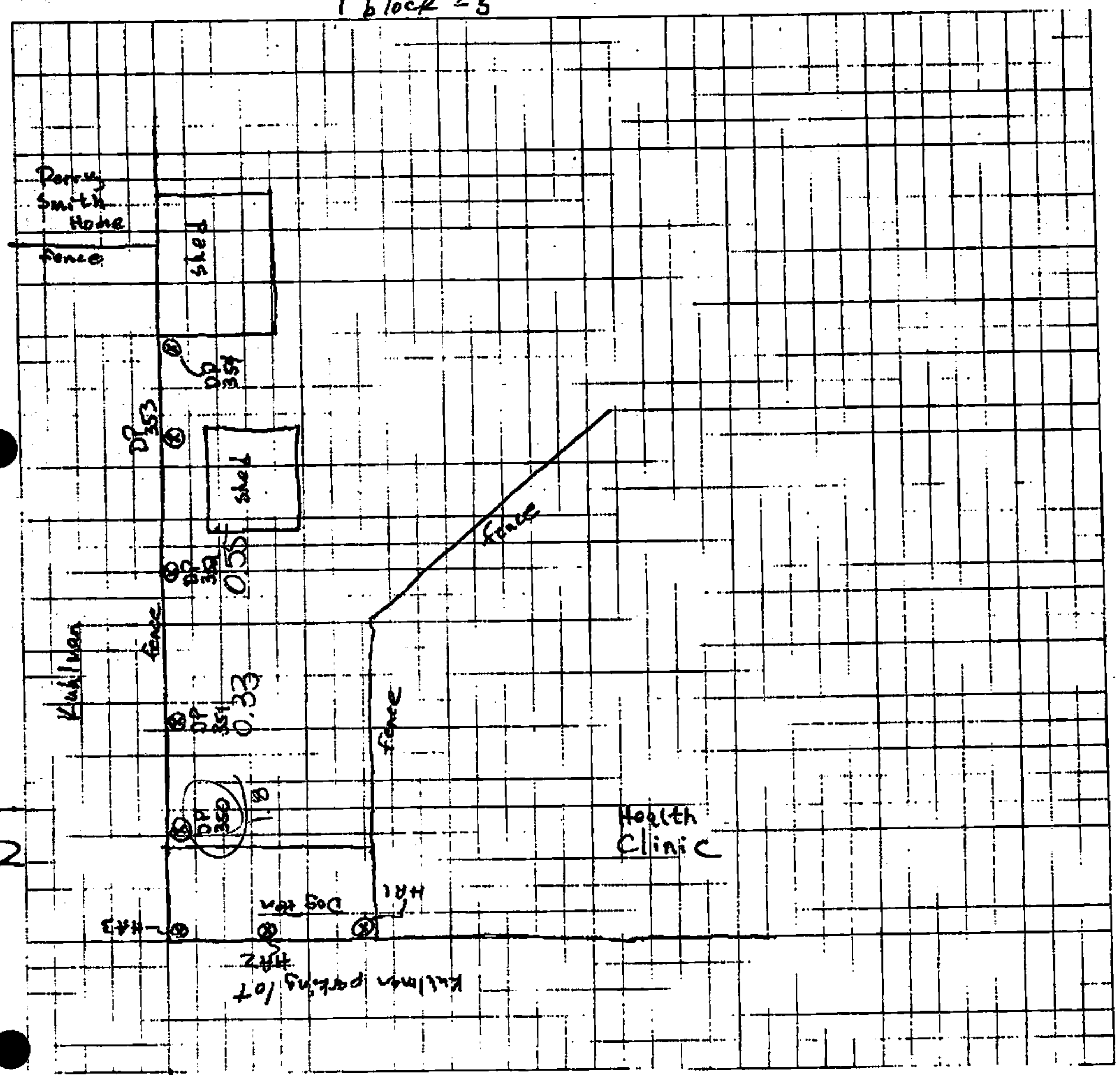
Job Number:

Title: Dabney Home

Computed by: TJF Checked by:

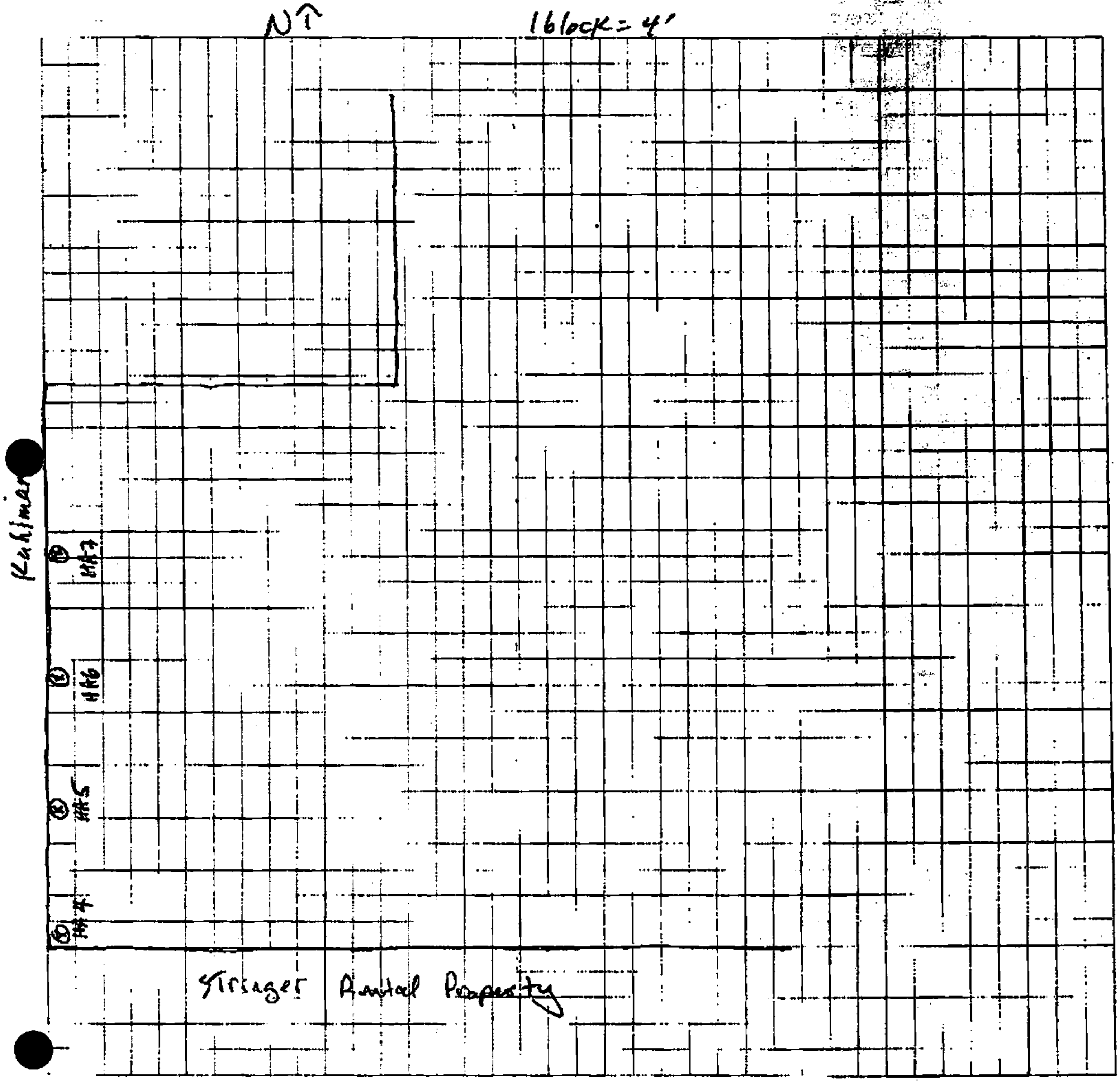
Date: 8-17-00 Sheet: 9 Of: 11

1 block = 5'



OGDEN

Job Name: Crystal Springs
Job Number:
Title: Wright House [illegible]
Computed by: Checked by:
Date: 8-18-00 Sheet 10 of 11



OGDEN

Job Name: Crystal Springs
Job Number:
Title: Harold & Suzanne Warren
Computed by: TJF Checked by:
Date: 8-18-00 Sheet: 11 Of: 11